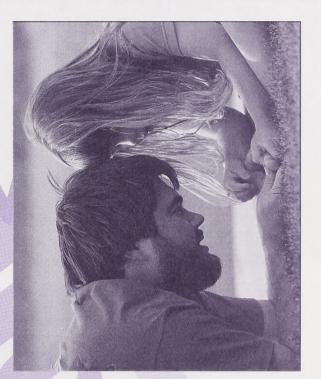
Module 7: Numbers Big and Small de Two 0 1620 3502991 5















Grade Two Mathematics
Module 7: Numbers Big and Small
Student Module Booklet
Learning Technologies Branch
ISBN 0-7741-2021-5

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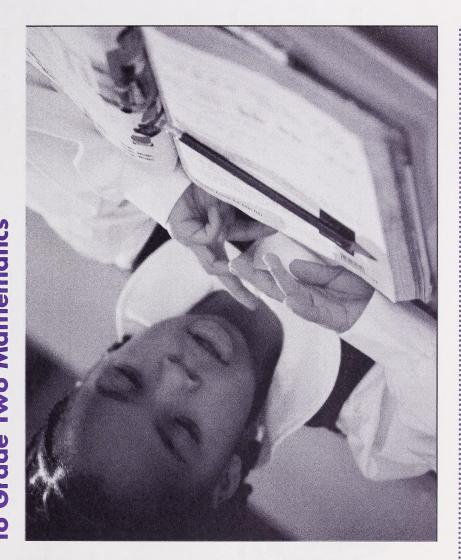
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to Grade Two Mathematics



amount of cookie? Have you tried to figure out how tall you are? Can you tell how much time you have to Have you ever shared a cookie with a friend? Did you try to break it evenly so that you each got the same these activities do something? How much does something weigh? In Grade Two Mathematics, you will learn how to do

now using Module 7: Numbers Big and Small. Look at the picture on this page. It gives the titles of the Student Module Booklets you will be using. You are



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cookies, or how many seeds are in a bag of bird seed? You may have thought there were hundreds of them-maybe even a thousand. You Have you ever wondered how many chocolate chips are in a bag of were probably right. Did you ever have to divide a bag of candy so that everyone gets the same number? Did you get a fair share?





thousand. You will also learn how to make equal groups. In this module, you will be learning how to count objects up to one

Day 1: Looking Back

It's time to review what you learned about time and patterns.

How many hours are there in a day? in two days? Do you remember? Does March come before or after April?

Can you copy this pattern using letters or actions?



You will even solve some problems using your calculator. Put your thinking cap on and away you go!

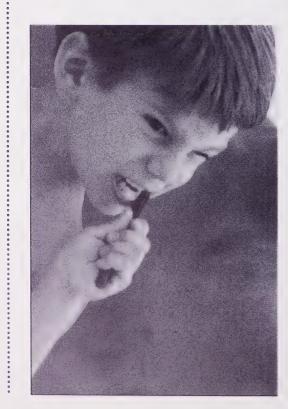


See how well you remember what you learned in Module 5.

1. Circle the unit of time you would use to measure these.

٥	9	ġ-	Ω
a day	the time it takes to wash the dishes	a camping trip	the time it takes to brush your teeth
minutes	minutes	minutes	minutes
hours	hours	hours	hours

- 2. How many minutes are in one hour?
- 3. How many hours are in one day?



4. Circle the correct answer.

5. Sonia spent three hours sewing a jacket. How many minutes did she spend on it?

Is that more or less than one day?

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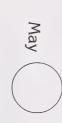


6. John Paul went out on the trapline with his father for two days. How many hours was he away?

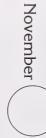
Explain your answer.



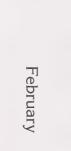
7. Number the months in the correct order from 1 to 12.



December









June

July

March

October 0

August

September

8. Fill in the dates on the calendar. Then answer the questions.

December

		T	T	
Saturday				
Friday				
Thursday	2			
Wednesday				
Tuesday				
Monday				
Sunday				

What is the day of the week for each of these dates? Look at the calendar and then print your answer on the line.

a. December 22

b. December 13

- d. December 6
- e. December 8
- f. December 19 c. December 28

What is	
S.	
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Wilde is the date for each of these days:

- g. the 2nd Monday _____
 - i. the 4th Wednesday ___
- h. the 1st Saturday _____
 - j. the 3rd Friday _____
- 9. Answer the questions and explain how you got your answers.
- a. How many months are there in two years and six months?

b. How many days are there in three weeks and two days?



10. Look at the pattern. $\nabla \nabla \Phi \nabla \nabla \Phi \nabla \nabla \Phi$

a. Describe the pattern.

b. Draw your own pictures to show the same pattern.

c. Copy the pattern using sounds. Show what sounds you can use.

Looking Back

ay 1

d. Copy the pattern using actions. Show or write what actions you can use.

11. a. Draw a picture to complete this pattern. $\diamondsuit \square \diamondsuit \square \square \diamondsuit \square \square \square$



b. How would you describe the pattern with words? ___



12. If $10 = \bigcirc$ and $1 = \bigcirc$, show each of the following numbers as a pattern. The first one is done for you.

c. 62	d. 39
a. 17 OCCCCC	b. 83

- 13. Circle the mistakes in the patterns. Then draw or print the correct pattern.
- <u>a</u> <u>a</u> o c @ 出 i j k L M ð 0 5 9 5
- b. hop jump skip hop hop jump jump jump skip skip skip skip hop hop jump jump skip skip skip

- 14. Fill in the missing numbers.
- a. ______, ______, ______, 30, 35, 40, ______
- b. 82, 80, 78, _____, ____, ____, _____
- c. _____, ____, 40, 50, 60, _____, ____
- d. _____, 27, 30, 33

15. Study the patterns and print the rule in the space provided at the top of each chart.

1000	14	21	17
Rule:	4	11	7
a.			

	10		3
Rule:	18	6	1

		6	22
•	4	2	15
2			

week after that he had twelve. How many marbles will Mustafa have in the fourth, fifth, and sixth week? 16. Mustafa bought four marbles each week. The first week he had 4, and the next week he had eight. The Draw the appropriate number of marbles for weeks 4, 5, and 6.

Week 1





Week 2



Week 3

Week 4

Week 5

Week 6

Mustafa will have marbles in the sixth week.

17. Use your calculator. Press these keys.



a. What will be the next five numbers to appear on the calculator screen?



b. If you keep pressing = , which of these numbers will appear? Circle them.

c. Why will the numbers you circled appear?

d. Print the keys you would press on the calculator if you wanted to skip count by threes up to fifteen.



e. What are four numbers greater than 40 and fewer than 60 that you will see on your calculator screen if you skip counted by threes?



f. What are four numbers between 50 and 70 you will not see on your calculator if you skip counted by threes?





Day 2: It's as Easy as 1, 2, 3

Many children have collections of things they find interesting. Do you collect anything, such as rocks or hockey cards?

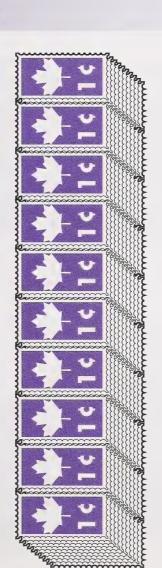
If you do, do you know how many you have altogether?

You will begin working with large numbers today. See if it's as easy as 1, 2, 3.



Lesson 1

asked Abdul how many stamps he had. Abdul said he didn't know. Abdul. Abdul showed Elena and Jasper his stamp collection. They Jasper and Elena were in Prince Rupert, B.C., visiting their friend were amazed at the number of interesting stamps he had. Jasper Elena suggested they count his stamps to find out. Elena, Jasper, and Abdul made piles of ten stamps in each pile. They finished making ten piles with ten stamps in each pile, they stopped. knew that would make counting all those stamps easier. When they

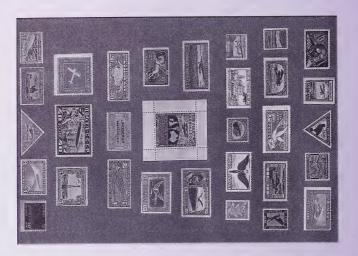


How many stamps have they counted so far?



It's as Easy as 1, 2, 3

Guide the student to answer that Elena, Jasper, and Abdul are counting by 10s.



How do you know that? ____

after 100. knew how to count to 100. They weren't so sure about the numbers Yes, they had counted 100 stamps so far. Elena, Jasper, and Abdul

Lesson 2



Take your base ten rods and cubes out of your Math Box.

Arrange 10 cubes on your desk. What is another way of showing 10?

Yes, you can show 10 with one rod. One rod equals 10.

How many rods make 100?

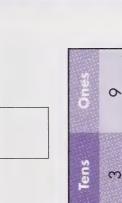
Yes, 10 rods make 100.

Look at the place-value charts, and print the numbers they show under them.

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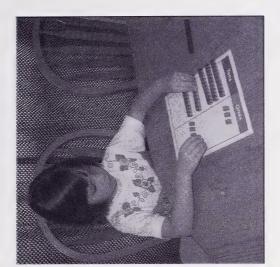




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It's as Easy as 1, 2, 3

Check that the student is placing the numbers correctly on the place-value chart, one at a time. For example, to show 61, the student would place 6 rods in the tens column and 1 cube in the ones column. Have the student remove the rods and cubes after each number.

these numbers: Place the rods and cubes on the place-value chart below to show

	51 14
ω	
75	37
80	52

	lens
	Ones

Lesson 3

If you were asked to show 100 with your cubes, how many cubes would you have to count out?

Yes, you would have to count out 100 cubes.

But you know a quicker way of showing 100. What is it?

Yes, you can show 100 with your rods.

Show 100 with your rods. Put the rods on your desk.

How many rods did you use?

If you used 10 rods, you are right.

Did you know there is even an easier way of showing 100?

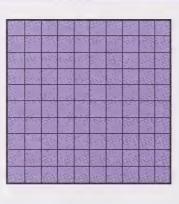
Place ten rods on your desk. Put them together into a square.

Show the student the base ten hundreds flat.

What number does the square show?

have to put together ten rods to show one hundred. hundreds flat. It's easier to use one flat to show one hundred than to If you said 100, you are right. Ten rods put together make a

Look at the hundreds flat.



What number does it show?

Right! The hundreds flat shows 100.

This is how 100 looks on a place-value chart.

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Look at the place-value chart. How many hundreds are there?

There is one hundred.

How many tens are there?

There are no tens.

How many ones are there?

There are no ones.

There is a one in the hundreds place. There are no tens and no ones. That means the number is 100.

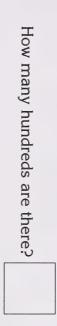


Look at this place value chart.

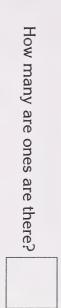
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What number do you think this is?

If you said 142, you are right.



How many tens are there?



There are 1 hundred, 4 tens, and 2 ones.



It's as Easy as 1, 2, 3

flat. Name the number of hundreds, tens, and ones for each. Print the Your home instructor will place rods and cubes next to the hundreds number in the place-value chart. Say the number to your home instructor.

Put 3 rods and 7 cubes next to the hundreds flat. The student will say there is one hundred, three tens, and seven ones; then he or she will print 1 in the hundreds column, 3 in the tens column, and 7 in the ones column in the chart. Have the student do this for all the numbers: 119, 143, 151, 120, 196.

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It's as Easy as 1, 2, 3

Give the student 125 items of a manipulative, such as wooden craft sticks, beans, or whatever you have of that number. Ensure the student understands there are 12 groups of 10 with 5 left over.

many groups of ten as you can. Your home instructor just gave you a large number of items. Make as

How many groups of ten did you make?

How many items were left over?

What is the total number of items?

The number is 125.

Did you know that the number is 125?

Print the number on the place-value chart.

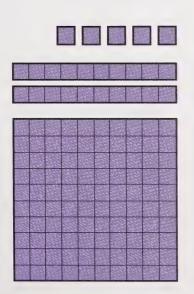
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column of the place-value chart, 2 in the tens

The student should print 1 in the hundreds

column, and 5 in the ones column.

This drawing shows 125: 1 hundreds flat, 2 rods, and 5 cubes.



Look at the next drawing.

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How many hundreds are there?



How many ones?

What number does it show?

If you said the drawing shows the number 147, you are right. There are 1 hundred, 4 tens, and 7 ones.

Have the student draw the hundreds flat, tens rods, and unit cubes to show each number in the boxes.

Draw the following numbers using hundreds flats, rods, and cubes.

1. 136

2. 175

Fill in the hundreds chart, counting by ones, starting with 101. Count out loud as you print each number.

	-				200
			10-15-10-11		
101					



Day 3: Counting by Ones

Now you know how to count larger numbers. One way is to make groups of ten. That makes counting easier.

Did you know that the same number can be shown in different ways? Yes, there are different ways of showing a number.

Today you will show the same number three different ways using your base ten blocks.



Lesson 1

Jasper, Elena, and Abdul could now count all the stamps in Abdul's stamp collection. They put the stamps into groups of ten. They had 17 groups of 10 stamps. There were 4 stamps left.

How many groups of ten were there?

How many were left?

What number is that?

Now they knew how many stamps Abdul had in his collection. He had 174 stamps!

Here are three ways of showing 174 with your blocks:

- 174 ones
- •17 tens and 4 ones
- 1 hundred, 7 tens, and 4 ones

Assist the student in finding the three ways of representing 174.

Show each of the three ways with your base ten blocks.





Lesson 2

Take turns placing the hundreds flat and

I cube in front of the student; then the

have the student write the number it

hundreds flat and 2 cubes; then 3, 4, 5, 6, 7, 8, and 9 cubes. After showing each one,

in the place-value chart. The first one is done for you. Tell your home instructor what the number is. Then print the number Your home instructor will make numbers with the base ten blocks.

What number does the hundreds flat and one cube show? | 101

represents. These numbers show 101, 102, 103, 104, 105, 106, 107, 108, and 109. Tell the student there are no rods, which means there are no tens. Emphasize the 0 in

the tens place.

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T E L



What number does the hundreds flat and two cubes show?

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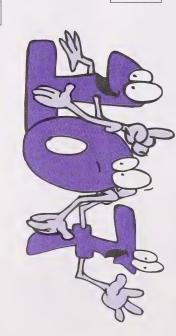


What number does the hundreds flat and five cubes show?

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What number does the hundreds flat and six cubes show?

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What number does the hundreds flat and seven cubes show?

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What does it mean when there is a zero in the tens place?

This means there are no tens.

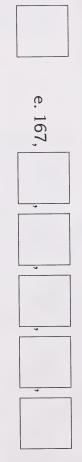
- 1. Use the hundreds flat, tens rods, and unit cubes to show each of these numbers
- a. 187b. 107 c. 199 d. 143 f. 165 e. 126 g. 130 h. 103 108 159 k. 100 l. 177

m. 190 n. 105

2. Count by ones. Print the numbers that come next.











Go to your Assignment Booklet 7A.

Day 4: Hundreds of Numbers

Jasper and Elena are getting better at using bigger numbers. How about you? Are you ready to use even bigger numbers? How high can you count?

When you use hundreds flats you can quickly show very big numbers. In fact, you can show hundreds of numbers. You can start right now by turning the page.



Lesson 1

ten they stopped. They had never counted this high before! help him. They put the cards into groups of ten to make the counting easier. When they got to 20 groups of they were back home, Jasper decided to count the cards in his hockey card collection. He asked Elena to Jasper and Elena were pleased that they could help their friend Abdul count his stamp collection. Now that



Hundreds of Numbers

Name the number.	
flat.	
nundreds	
k at the l	
s at	
90	

Look at the hundreds flat. Name the number.

What number do these two hundreds flats show?

If you wrote 200, you are right.

One hundreds flat shows 100. Two hundreds flats show

One hundreds flat shows 100. Two hundreds flats show 200.

1. Print the number beside the hundreds flats. Then say the number out loud.

a. three hundreds flats

e. seven hundreds flats

b. four hundreds flats

c. five hundreds flats

f. eight hundreds flats

Place a hundreds flat in front of the student. The student should print 100 for the number.

Place another hundreds flat beside the first one.

Continue placing hundreds flats up to 1000 beside the others. Have the student name each number.



g. nine hundreds flats

h. ten hundreds flats

Ten hundreds flats show 1000.

Do you think you can count to 1000?



Take your calculator out of your Math Box.

Enter each of the numbers below on your calculator. After you instructor check each one. enter it, make the number with the hundreds flat. Have your home

a. 700

show 700.

corresponding number with the hundreds flat. calculator; then have him or her make the Have the student enter the number on the

the calculator, then group 7 hundreds flats to For example, the student will enter 700 on

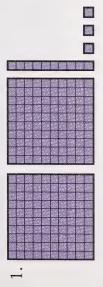
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- g. 200

- b. 800
- <u>.</u> 400
- h. 1000

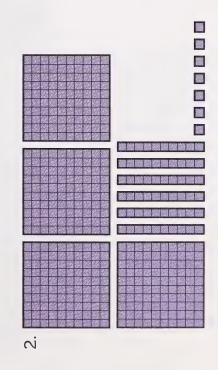
- c. 100
- f. 600
- i. 900

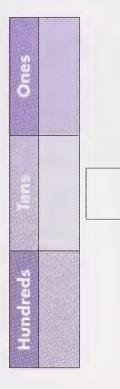
Lesson 2

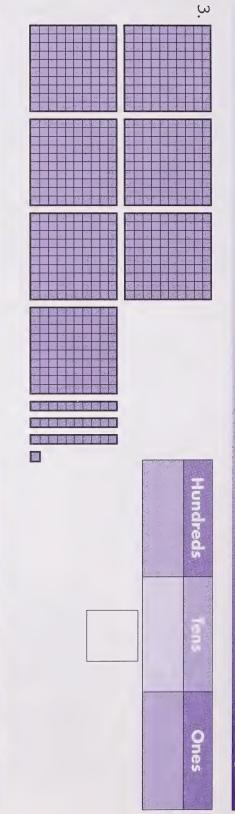
below. Say the number out loud and print it. Then print the value of the numbers in the place-value chart. Every number has a value. Print the value of the numbers shown by the hundreds flats, rods, and cubes The first one is done for you.

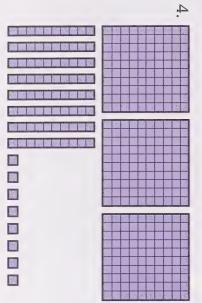


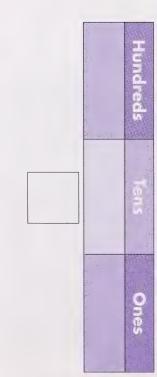
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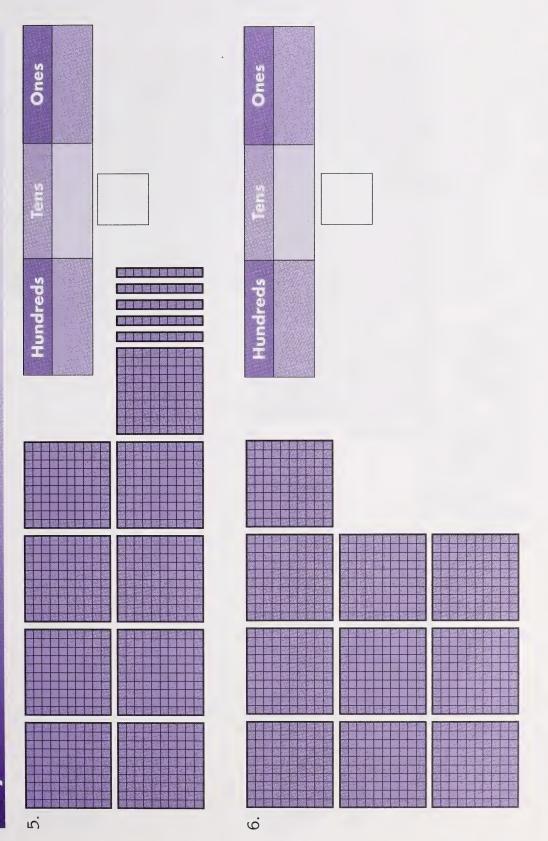




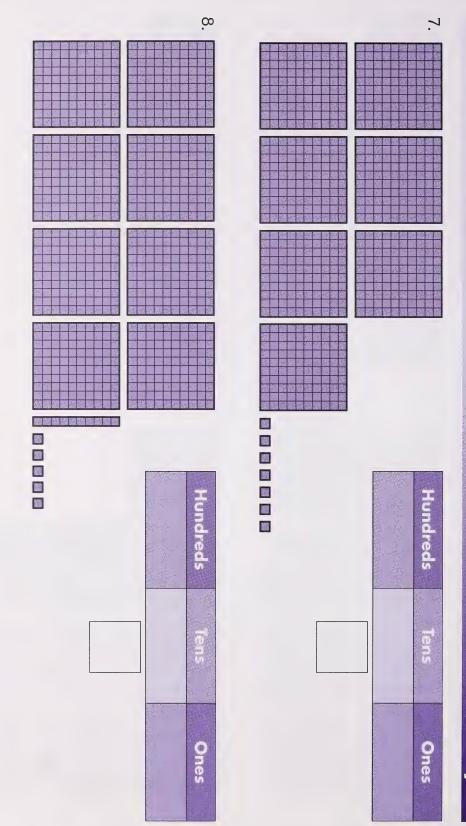














Lesson 3

home instructor. Tell your home instructor what the number is. Then Now it's your turn to make numbers up to 1000 using the hundreds flats, rods, and cubes. After you make a number, show it to your print it in the boxes below. Make ten numbers.



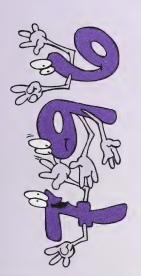








them in the boxes. Check to make sure the numbers to you. Then the student will print numbers correspond to the flats, rods, and Have the student make numbers with the flats, rods, and cubes, and then say the cubes set up by the student.



Hundreds of Numbers

each number out loud. numbers are correct. Have the student say Check the display screen to ensure the

enter 16. Check each number to ensure it is example, the student will look at 15 and more than the ones just entered. For Have the student enter the number that is one



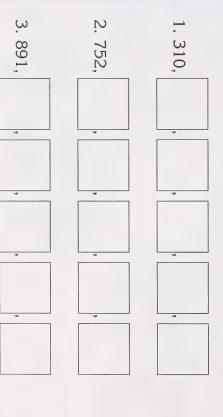
Take your calculator out of your Math Box again.

to your home instructor and say each number out loud. Enter the following numbers in your calculator. Show the calculator

99

above. Have your home instructor check your numbers Now, enter the number that is one more than each of those shown

five numbers after each of these Do you think you can count numbers in the hundreds? Print the next



Hundreds of Numbers

10. 398,	
10.	
4. 465,	
7	

5. 118,

7. 203,

8. 580,

9.995,

6. 670,

Fill in the hundreds chart, counting by ones, starting with 201. Count out loud as you print each number.

	111111111111111111111111111111111111111				
					201
300					



Day 5: Two by Two

Today you are going to practise counting two by two. There is a pattern to counting by 2s. What could it be?

If you write the numbers as you count by 2s, you will see the patterns that are made. You can also use your calculator to see the patterns. That's just what you will do today.

Are you ready to begin working two by two?

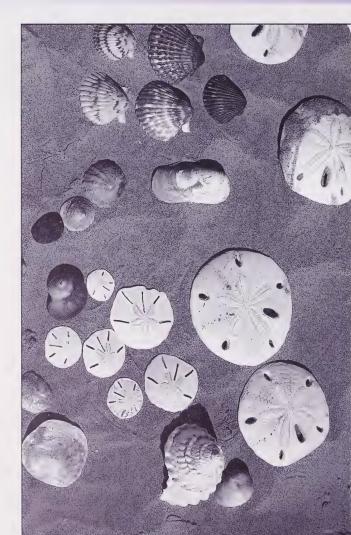


Brainstorm activities with the student. counting items in a collection, and so on. Activities can include skipping with a rope,



Lesson 1

Can you think of a fun activity that involves counting out loud?



to 350 or more. Skip rope or count items in a collection starting with 300 and going Fill in the hundreds chart, counting by ones, starting with 301. Count out loud as you print each number.

					400
301					

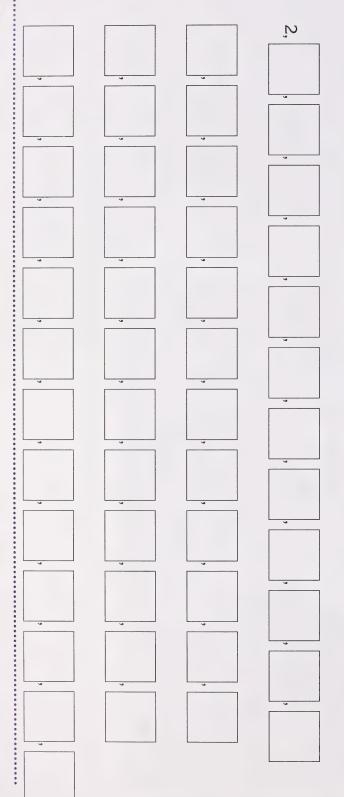
Lesson 2



Choose 100 objects from your Math Box.

Once you have your groups, count them by twos out loud. Point to each group as you count. Put the items you selected from your Math Box into groups of two. Make 50 groups of two.

1. Count by twos again. This time write the numbers down, starting with 2.





2. At what number did you finish?

Look at the numbers you wrote down. Do you notice a pattern? What is it?

all end in 2, 4, 6, 8, or 0? They should. If not, go back and count by always ends in either 2, 4, 6, 8, or 0. Check your numbers. Do they The numbers are all even. Do you remember what that means? An even number can be divided into two equal parts. An even number twos again and correct the numbers.

Lesson 3

You counted by twos to 100 in the last lesson. What do you think happens when you count by twos after 100? Tell your home instructor what you think.

With your manipulatives, make 20 more groups of two.

Count by twos from 100.

What is the next number to come after 100?

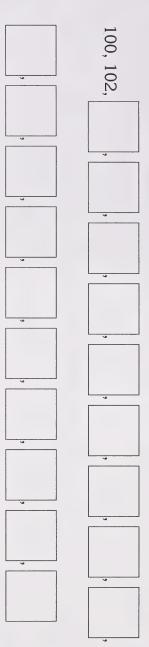
The last number should be 100. Check the numbers to make sure the student is right.

If the student does not notice a pattern, ask if he or she thinks the numbers are odd or even.



If you said 102, you are right!

1. Count by twos from 100 up to 140. This time, print the numbers in the boxes.



Does the pattern stay the same? Circle





Q

When you count by twos after 100, do the numbers remain even? Circle







Notice how the pattern does not change. All the numbers still end in either 2, 4, 6, 8, or 0.

Yes, they remain even.



Take your calculator out of your Math Box.

Two by Two

You can skip count by twos on your calculator. To start from a number, for example 164, enter

numbers. Look at each number as it appears on the display screen. See what happens when you count by twos starting from these = and so on.

Press the = key at least twenty times for each number.

If you skip counted by two from 286, would the number 303 appear on the display screen? Circle

Tell your home instructor why 303 would not appear.

The number 303 will not appear because it is not an even number. It does not end in a 2, 4, 6, 8, or 0.

- 2. Answer the following questions and explain your answers to your home instructor. Check your answers on your calculator.
- a. If you skip counted by two from 796, would 812 be displayed? Circle







<u>Þ</u> If you skip counted by two from 622, would 641 be displayed? Circle



- OL
- If you skip counted by two from 348, would 379 be displayed? Circle

<u>ი</u>





d. If you skip counted by two from 564, would 594 be displayed? Circle







<u>.</u> If you skip counted by two from 198, would 217 be displayed? Circle







g. If you skip counted by two from 284, would 311 be displayed? Circle

If you skip counted by two from 490, would 510 be displayed? Circle



or



Þ. If you skip counted by two from 818, would 836 be displayed? Circle



3. Count by twos starting from the number given.

b. 282,

c. 796,

d. 948,

e. 430,

f. 564, , ,

Check the student's answers to the previous question. Only even numbers appear when skip counting by 2s.



4. Count by twos to fill in the blanks in the chart.



					648
		698			
	718				
				672	
738			690		
					660
		710			



Fill in the hundreds chart, counting by ones, starting with 401. Count out loud as you print each number.

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401					



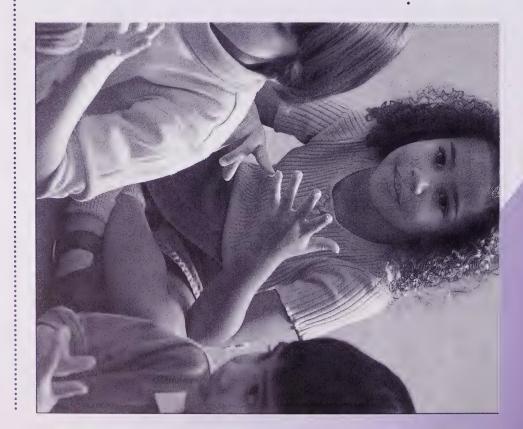
Go to Assignment Booklet 7A.

Day 6: Give Me Five

Have you ever counted while skipping rope? Skip counting is a way to count more quickly. Today you will count by 5s.

Do you remember how much a nickel is worth? If you use nickels, you will be counting by 5s. You will also use your calculator today.

What does "Give me five," mean? You and your home instructor can do a "give me five" to start today's work.

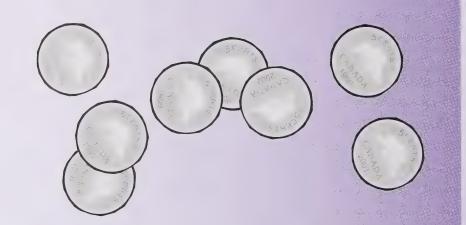


Lesson 1

Skip rope or count items in a collection starting with 500 to at least 550. Then fill in the hundreds chart, starting with 501. Count out loud as you print each number.

					9009
501					





Check the numbers to make sure they are right. The pattern is that the last digit of every other number ends in a 0 or a 5.

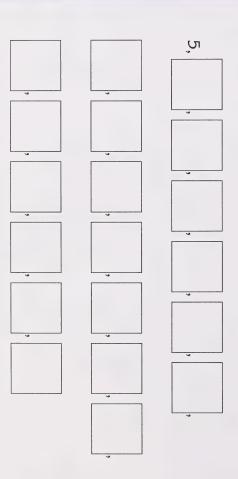
Lesson 2



Box. Take out the nickels from your play money in the Math

count out loud. Count by 5s to 100 using the nickels. Point to each nickel as you

1. Count by 5s again. This time, write the numbers down, starting with five.



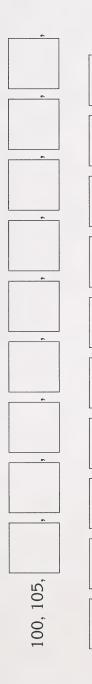
is it? Look at the numbers you wrote down. Do you notice a pattern? What What do you think happens when you count by 5s after 100? Tell your home instructor what you think.

Count from 100 by 5s with your nickels. Use 20 more nickels. If you've run out of nickels, make 20 groups of 5 with a manipulative from your Math Box.

What is the next number to come after 100 when you count by fives?

If you said 105, you are right!

2. Count by 5s from 100 again. This time, print the numbers.



Does the pattern stay the same? Circle

When you count by 5s after 100, are the last digits of every number 0 and 5? Circle

Or

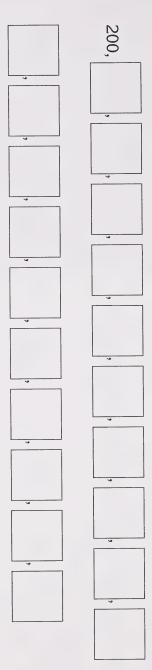


OĽ



Yes, they are. Notice how the pattern does not change. All the numbers still end in either 5 or 0.

3. Count by 5s from 200 and print the numbers in the boxes.



4. Count by 5s from 700 and print the numbers in the boxes.



5. Count by 5s from 900 and print the numbers in the boxes.

900,

What is the last number you counted?

Did you say 1000? You are right!

Lesson 3



You can skip count by 5s on your calculator. To start from a number, for example 185, press

and so on.

Press the numbers. Look at each number as it appears on the display screen. See what happens when you count by 5s starting from these key at least fifteen times for each number.

on the display screen? Circle If you skip counted by 5s from 280, would the number 316 appear 205 330 420 545 630 780 or 915 855

Tell your home instructor how you know that 316 would not appear.

does not end in a 5 or a 0.

The number 316 will not appear because it

1. What will the next four numbers be if you count by 5s?

- b. 740



2. Answer the following questions. Explain your answers to your home instructor and then check them on your calculator.

or a. If you skip counted by fives from 795, would 822 be displayed? Circle

b. If you skip counted by fives from 620, would 695 be displayed? Circle

c. If you skip counted by fives from 340, would 379 be displayed? Circle

d. If you skip counted by fives from 565, would 594 be displayed? Circle

e. If you skip counted by fives from 195, would 243 be displayed? Circle

or









or



or

Give Me Five

ends in a 5 or a 0, it will appear Check the student's answers. If the number

the numbers all end in a 5 or a When you skip count by fives,

- f. If you skip counted by fives from 410, would 505 be displayed? Circle or
- g. If you skip counted by fives from 285, would 310 be displayed?
- h. If you skip counted by fives from 815, would 898 be displayed? Circle or
- 3. Count by 5s starting at each of the following numbers.
- c. 795,

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945,
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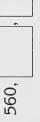










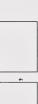






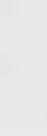




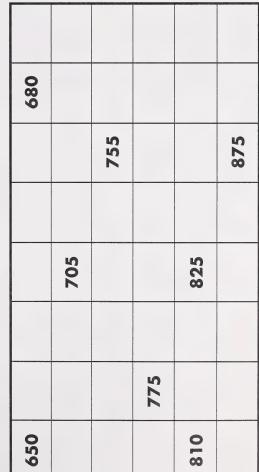


e. 430,











Fill in the hundreds chart, counting by ones, starting with 601. Count out loud as you print each number.

					601
700					



Go to Assignment Booklet 7A.

Day 7: Ten's the Ticket

Are you ready for more and bigger numbers? You are getting better and faster at using big numbers. Counting by tens makes using big numbers even easier.

Do you remember how much a dime is worth? When you count dimes you are counting by tens. What kind of pattern does counting by tens make?

For today, ten's the ticket! See how far and fast you can count by ten.



Lesson 1

counting by ones, starting with 701. Count out loud as you print each number. Skip rope or count objects in a collection starting from 700 to at least 750. Then fill in the hundreds chart,

					701
800					

Lesson 2

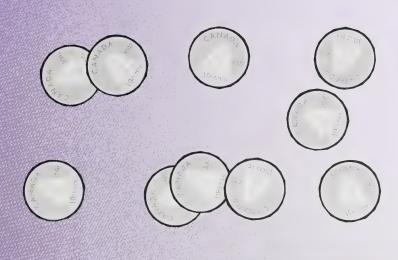


Take the dimes from the play money out of your Math Box.

Count by tens to 100 using the dimes. Point to each dime as you count out loud. 1. Count by tens again. This time, write the numbers down, starting with ten.

•

Look at the numbers you wrote down. Do you notice a pattern? What



Check the numbers to make sure they are right. The pattern is that the last digit of every number ends in a 0.

What do you think happens when you count by tens after 100? Tell your home instructor what you think.

Add one more dime and count from 100. What number comes after 100 when you count by 10?

If you said 110, you are right!

Add another dime. What number comes after 110 when you count by 10?

120 is right. Add another dime. What number comes after 120 when you count by 10?

130 is right. Add another dime. What number comes after 130 when you count by 10?

140 is right. Add another dime. What number comes after 140 when you count by 10?

150 is right. Add another dime. What number comes after 150 when you count by 10?

160 is right. Add another dime. What number comes after 160 when you count by 10?

170 is right. Add another dime. What number comes after 170 when you count by 10?

180 is right. Add another dime. What number comes after 180 when you count by 10?

190 is right. Add another dime. What number comes after 190 when you count by 10?

200 is right. You can count by 10s up to 200!

2. Count by tens from 100 again out loud. Print the numbers in the boxes.

Does the pattern stay the same? Circle





Yes, it is. Notice how the pattern does not change. All the numbers still end in 0.

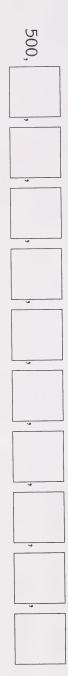
When you count by tens after 100, is 0 the last digit of every number? Circle

or

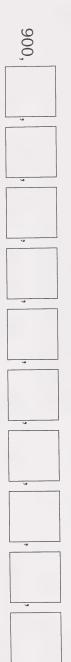




4. Count by tens from 500 and print the numbers in the boxes.



5. Count by tens from 900 and print the numbers in the boxes.



What is the last number you counted?

Did you say 1000? You are right!

Lesson 3



Take your calculator out of your Math Box.

You can skip count by tens on your calculator. To start from a number, for example 130, press

and so on.



See what happens when you count by tens starting from these numbers. Look at each number as it appears on the display screen. Press the | = | key at least ten times for each number.

630	720	096
480	290	850
170	240	310

does not end in a 0. The number 438 will not appear because it

every number When you skip ends in zero.

> on the display screen? Circle If you skip counted by tens from 370, would the number 438 appear Ties or

Tell your home instructor how you know 438 would not appear.

1. What will the next four numbers be if you count by tens from each given number?









- 2. Answer the following questions. Explain your answers to your home instructor and then check them on your calculator.
- or Mes a. If you skip counted by tens from 790, would 822 be displayed? Circle
- Ses b. If you skip counted by tens from 600, would 690 be displayed? Circle
- Seg c. If you skip counted by tens from 330, would 370 be displayed? Circle
- Res d. If you skip counted by tens from 560, would 635 be displayed? Circle
- Sez e. If you skip counted by tens from 180, would 240 be displayed? Circle
- Seg f. If you skip counted by tens from 410, would 505 be displayed? Circle
- or Sez g. If you skip counted by tens from 250, would 310 be displayed? Circle
- h. If you skip counted by tens from 820, would 897 be displayed? Circle

- or

or

or

or

Or

Or

Ten's the Ticket

appear. Check the student's answers to the previous question. If the number ends in a 0, it will

3. Count by tens starting with each of the following numbers.







e. 410,

1 to 9). numbers in every column are numbered brainstorm with the student at least two After filling in the chart in question 4, patterns. (All the numbers end in 0; the first

f. 550,

4. Count by tens

								006	
		290							
							780		
02									
				460					
	150								
						640			
			330						
					520				
10					40				910

Tell your home instructor what patterns you see.

Fill in the hundreds chart, counting by ones, starting with 801. Count out loud as you print each number.

				801



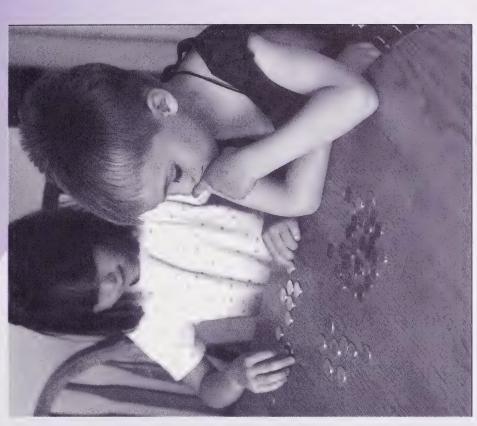
Go to Assignment Booklet 7A.

Day 8: I Can Count by 25s

Now you can count by 2s, 5s, and 10s. Which way is the fastest way to count to 100? to 1000?

You know how much a nickel and a dime are worth. You can count your nickels and dimes!

Do you remember how much a quarter is worth? Today's challenge is to count by





Lesson 1

Fill in the hundreds chart, counting by ones, starting with 901. Count out loud as you print each number.

					901
1000					



Take four quarters from the play money out of your Math Box.

Do you remember from Module 6 how much a quarter is worth? A quarter is worth

One quarter is worth 25 cents.

1 quarter = 25¢

If one quarter is worth 25¢, how much are two quarters worth?

Here is a way of figuring that out: If one quarter is worth 25, then two quarters are worth 25 plus 25.

11
+
e equation.
<u> </u>

25 Did you write 25 + 25? You were right. Solve the problem again. + 25



Can Count by 25s

Now, what are two quarters worth?



Did you say 50¢?

Yes, two quarters are worth 50¢.

2 quarters = 50 ¢

If two quarters are worth 50¢, then what are three quarters worth?

How would you figure that out?



Did you write 25+50? Solve the problem again. + 50 25

added 25 to 50 because two quarters are three quarters are worth. worth 50¢, so 25 is added to find out what The student should explain that he or she

Tell your home instructor why you added 25 and 50 together.

What are three quarters worth?

Three quarters are worth 75¢.

3 quarters = 75¢

How would you find out what four quarters are worth?

Did you say add 25 to 75? If you did, you were right.

Ш Print the equation.

Did you write 25 + 75? Solve the problem again.

+ 75

25

What are four quarters worth?

The student should explain that three quarters are worth 75¢, so 25 is added to find out what four quarters are worth.

I Can Count by 25s

Four quarters are worth 100¢. 4 quarters = 100¢

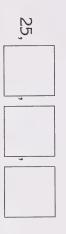
What is another way of saying 100¢?

One dollar is another way of saying 100¢.



Lesson 3

Point to each of your four quarters and count by 25s out loud. Print the numbers, starting with 25.



Did you write 25, 50, 75, 100? If so, you now know how to count to 100 by 25s!

How many 25s are in 100?

There are four 25s in 100.



Take your calculator out of your Math Box.

You can skip count by 25s on your calculator. To start from 25, enter

and so on.

Predict what the next numbers will be if you count by 25s starting at the given number. Check you answers on your calculator.

1. a. 25,

- c. 50,

b. 75,



- 2. Count the quarters and print the value of each.
- <u>a</u>



4

Þ.









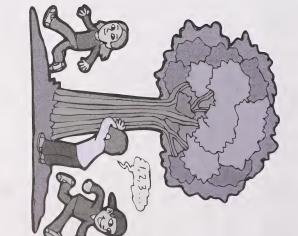
0



<u>a</u>











Go to Assignment Booklet 7A.

Day 9: Equal Groups of Two

Elena and Jasper have some problems you can help them solve today. One problem is about making equal groups of cookies. Like Jasper, you will use some cubes and pretend they are cookies. Solving the problem will be easy by sorting the cubes into equal groups.

Are there any parts of your body that come in equal groups of two? Believe it or not, you will use the answer to this question to help you work through some problems today.

It's time to see what you can do with equal groups of two!

Equal Groups of Two

Lesson 1

peanut butter cookies Elena and Jasper wanted to make something for the sale. They decided to make The community league in Elena and Jasper's home town was having a bake sale.

plates of cookies for ten cents each. Jasper thought it would be a good idea to sell the cookies in sets on paper plates. Elena suggested they put two cookies on each paper plate. They decided to sell the



many cookies would fill all those twenty plates, with two cookies on each plate. Jasper wondered how many cookies they would have to bake. Jasper and Elena had to figure out how Elena bought a package of paper plates. There were twenty plates in the package.

paper plates. Elena drew twenty plates with two cookies on each plate. pretended they were cookies. He made equal groups of two by putting two cubes on each of the twenty Jasper and Elena thought of different ways to figure out their problem. Jasper took some cubes and

Here are Jasper's cubes.





This is the drawing Elena made of the cookies on the plates.



showing the number of cookies per plate, how would they know how Now that Elena and Jasper had a drawing of the cookies and cubes many cookies to bake in all?

count by twos and that would be a quick way. They also knew they how many cookies they had to bake. They knew they could count Elena and Jasper came up with three different ways of finding out each one, but that would take a lot of time. They knew they could could add the groups of two. This is how they added the groups:

They had to add twenty twos together, which was an awful lot of

Guide the student to understand that he or she could count each cookie, count the groups in twos, or add two plus two twenty times.





Take blocks or o

Take blocks or cubes out of your Math Box.

With your cubes, find out how many cookies Elena and Jasper would have to bake.

Arrange your cubes in groups of two.

Count the groups of cubes you made. How many groups are there?

Did you make twenty groups? Circle





There are twenty plates to put cookies on. You need twenty groups.

How many cubes are in each group?



You should have counted twenty groups of two cubes in each, for a total of 40 cubes.

There are 2 cubes in each group, and 20 groups in all. 20 groups of 2 =

20 groups of 2 = 40.



Day 9

Jasper and Elena now know they would have to bake 40 cookies.

If they sold all the cookies at ten cents a plate, how much money would Jasper and Elena have made for their community league? How would you figure that out? What did you do to work out how much money Elena and Jasper would make? If you said skip counting by tens, you are right. Did you remember that there are 100 cents in one dollar?

¢ 200 cents is correct. How many cents are in two dollars?

What is the total amount of money Elena and Jasper could make if

they sold all the cookies?

If you said two dollars, you are right!

Equal Groups of Two

Discuss with the student how to work out the problem. The student can skip count by 10s for each group of two cubes to find out. When he or she gets to 100, remind the student that 100¢ equals \$1. When the student gets to 200, ask how much 200¢ is worth.



Equal Groups of Two

Things in twos can include eyes, ears, hands, feet, legs, arms, wheels on a bicycle, socks, mittens, and so on.

Lesson 2

at least three. Many things come in equal groups of two. Can you think of any? List

counted the number of dogs in the kennel. they kept looking away, which made it hard to count. Instead, she how many eyes were looking at her. She tried to count them all, but dogs. Elena noticed how beautiful their eyes were. She wondered Elena was visiting her uncle in Whitehorse. Her uncle raises husky

with. She put two blocks in each group. She made 9 groups. Elena counted 9 dogs. She asked her uncle for some blocks to count

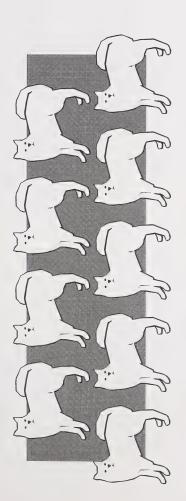
Why do you think she put the blocks into groups of two?

Yes, she did that because each dog has two eyes.

Day

Equal Groups of Two

Then Elena drew the dogs.



With your cubes, make 9 groups of two.

Count each group by twos. 9 groups of 2 =

How many eyes did Elena see looking back at her?

If you said 18, you are right. Elena saw 18 eyes.

Look at the list you made earlier of things that come in equal groups of two. Make up a story problem about one of those groups.

Brainstorm with the student ideas on story problems with groups of two.

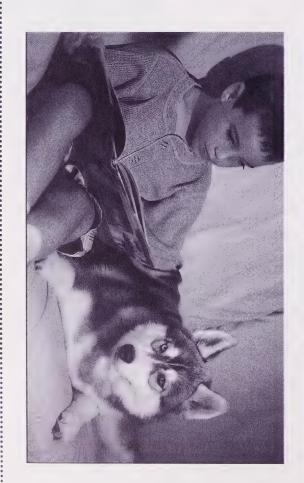


Equal Groups of Two

The student can describe one of several possibilities: counting each item individually, skip counting by twos, or adding two plus two, and so on until all the groups have been added.

Now use your cubes to solve the problem.

How did you figure out the answer to your story problem?





Day 10: More Equal Groups

Are you ready to explore more equal groups?

You know you can have equal groups of two. How about equal groups of three? Can you have equal groups of four?

Using your cubes and drawing pictures will help you solve many problems today.





Lesson 1

Jasper and Elena enjoyed working with equal groups of two. They practised some more with equal groups. These are the activities they worked on. Try them yourself.

- 1. Look at these groups of items and print the total number.

















d.





More Equal Groups

2. Choose any object you want to show these equal groups. Draw pictures for each.

a. six groups of two	b. seven groups of two
c. four groups of two	d. ten groups of two

More Equal Groups

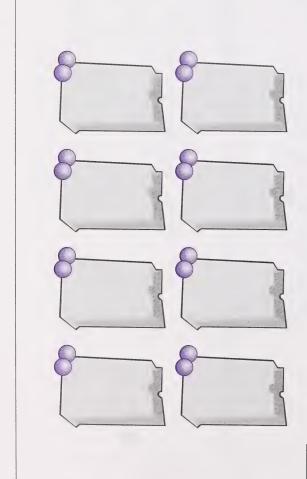
Take your cubes out of your Math Box

3. Solve these problems. Draw pictures for each one. Use your cubes to help you find the answers. The first one is done for you.

a. Abe has eight bags of candy. There are two jawbreakers in

each bag. How many jawbreakers does Abe have in all? 16

The student may need your help with question 3. Have the student draw all the items, and then total the number. The student doesn't have to draw exact representations of the item. Elephants, for example, can be large circles with two ears on each one.





Day 1

More Equal Groups

c. Barb saw three elephants at the zoo. How many ears did the elephants have in all?				
b. Myros found 10 pairs of socks at the rink.	How many socks did he find in all?			

d. Sharla bought three packages of paper towels and four packages of juice boxes. There were two paper towels in each package, and two juice boxes in each package.

How many paper towels and juice boxes did Sharla buy in all?



More Equal Groups

These can include a three-leaf clover, a tricycle, a three-legged stool, and so on.



Lesson 2

outside for groups of three. Then list at least three of them. equal groups of three? Look in your room, in your house, and even You made a list of equal groups of two in Day 9. Now can you find

•	•)	
	-		
	- 1		

groups of two? You probably did. There are more things around you that have even equal groups than odd equal groups Did you have a harder time finding equal groups of three than equal

Day 1

More Equal Groups

Jasper had to solve this problem:

Alphonse has four dogs. He gave each dog three dog bones. How many bones did he give his dogs in all?

What should Jasper do first?

Yes, Jasper can either draw pictures of the dogs and their bones, or he can use his cubes. He did both. First, he arranged his cubes to show the dogs and the bones. This is how he arranged the cubes.







Do you know why he arranged the cubes like this? Tell your home instructor.

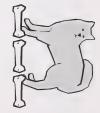
Guide the student to respond that there are four dogs with three bones each. That means there are four groups of three cubes.



This is the drawing Jasper made to show the equal groups of three.









How many bones did Alphonse give his dogs in all?

The student may have chosen to count each bone, count by three, or add 3 + 3 + 3 + 3.

answer was twelve? Tell your home instructor. Did you say twelve? Then you are right! How did you know the

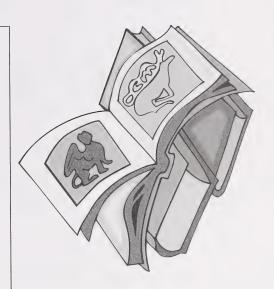
More Equal Groups

Use your cubes to help you solve these problems. Then draw a picture for each one.

1. Seven children went to the library to check out books. They each checked out three books. How many books did they check out in all?



books in all. The children checked out



2. Stanley's father made pancakes for the whole family. He made three pancakes each for five people. How many pancakes did he make in all?

5 groups of 3 =

Stanley's father made pancakes in all.



Day 10

More Equal Groups

Lesson 3

So far you've made a list of equal groups of two and three. Can you even outside for groups of four. List at least three equal groups of find equal groups of four? Look in your room, in your house, and four you found.

Can you find equal groups of five? Look in your room, in your house, and even outside for groups of five. List the equal groups of five you

Equal groups of four can include legs on animals, tires on a car, legs on a chair, and so on.

Equal groups of five can include fingers on a hand, toes on a foot, items in packages (five pencils in a package), and so on.



1. Solve these problems. Each one has a picture started for you. Finish drawing the pictures in order to find a solution.

c. How many tires are on three cars?

a. How many fingers are on five hands?



There are fingers on five hands.

There are

tires on three cars.

b. How many legs are on six chairs?



d. How many toes are on four feet?



There are legs on six chairs.

There are toes on four feet.

More Equal Groups

Check each group of cubes the student

- 2. Use your cubes to make groups. After you have made each
 - group, draw the cubes in the box. Then fill in the answer box.

a. Make four groups of three cubes.

4 groups of 3 =

b. Make five groups of four cubes.

- c. Make seven groups of two cubes.

5 groups of 4 =

7 groups of 2 =

Day 10

More Equal Groups

d. Make six groups of three cubes.

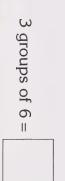
e. Make five groups of five cubes.

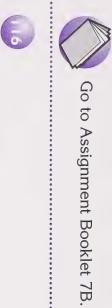
5 groups of 5 =

6 groups of 3 =

f. Make three groups of six cubes.

g. Make three groups of seven cubes.



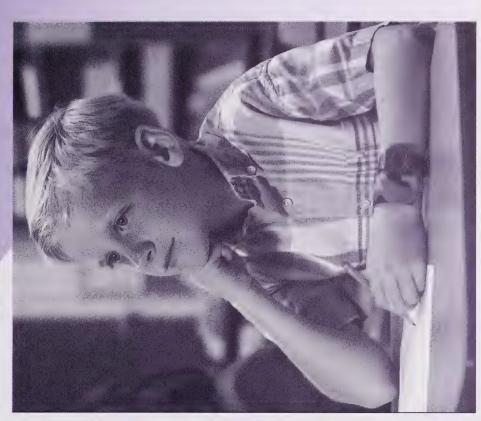


Day 11: Equal Groups from the Same Number

Elena found working with equal groups interesting. She noticed that sometimes she could make different equal groups from the same number. How did she do that?

Just like Elena you will arrange your cubes to show different equal groups for some numbers. That can be tricky.

You will need to put your thinking cap on for today's work! Is it on? Good. Then you are ready to begin.





Lesson 1

Right now, you'll review what you have learned so far about equal groups.

Draw pictures to show the following equal groups.

1. 4 groups of 3

How many groups are there?

How many are in each group?

How many are there in all?

groups of =

н	_	
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П		
П	- 0	100
ı		
п		
п	1	
ш		٠
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Equal Groups from the Same Number

2. 5 groups of 2

there?
s are t
group
v many g
How

How many are in each group?

3. 3 groups of 4

How many groups are there?

How many are in each group?

How many are there in all?

groups of =

Equal Groups from the Same Number

Lesson 2

equal groups. She was able to make different equal groups from the same number! Here is what Elena discovered when she worked with Elena noticed some interesting things while she was working with

Elena started with this many tiles.



1. How many tiles do you see?



Take your cubes out of your Math Box.

2. With your cubes, make three sets of four. How many cubes did

you use in all?

Have the student make the groups with the cubes first; then have them draw the arrangement in the boxes.



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	Mod
,	nov
(3 Make a drawing in the box to show how you arranged your cubes.
,	your
	cubes.

4. Use the same number of cubes to show groups of two. Then make a drawing to show how you arranged them.

5. How many groups of two are there in twelve?



_ \D(

Equal Groups from the Same Number

. Can you find another way of arranging twelve cubes into equal
cubes ir
g twelve
arrangin
r way of
d anothe
n you fine
5. Car

groups? Circle



Show how you would arrange them with your cubes. Then draw them in the box.

Have the student think of putting the 12 cubes into two groups of six.

Print the other way of arranging twelve cubes into equal groups.

groups of

Did you write two groups of six? If you did, you are right.

Discuss putting the cubes into equal groups of one.

7. There is yet another way of arranging twelve cubes into equal groups. Talk with your home instructor about it.

Then draw them in the box. Did you think of another way? Show the new way with your cubes.

into equal groups. Print the numbers that show this way of arranging twelve cubes

groups of

Did you say twelve groups of one? You are right again.

Day 1

Equal Groups from the Same Number

Here are all the ways you can arrange the number twelve into equal groups:

- •3 groups of 4
- 4 groups of 32 groups of 6
- 6 groups of 2
- 12 groups of 1

Elena found five different ways of arranging her twelve tiles into equal groups.

Lesson 3

eleven. Tell your home instructor how many ways you can arrange Show the different ways Elena could arrange tiles if she had only eleven cubes into equal groups.

Did you find many different ways? Circle





Discuss how the tiles can be made into 11 groups of one. Tell the student that some numbers cannot be arranged into equal groups other than groups of one.



Show how to arrange the eleven tiles into equal groups with your cubes. Then draw them in the box.

equal groups. There are some that cannot be made into equal groups, other than equal groups of one. Every number can be made into equal groups of one. Most numbers, however, can be made into different



Choose a manipulative from your Math Box.

Equal Groups from the Same Number

Use your manipulative to arrange these numbers into different equal groups: 3 5 7 13.

Could you make equal groups other than groups of one with those numbers? Circle





No, you couldn't. Those are some of the numbers that cannot be made into different equal groups.

These numbers can be arranged into different equal groups. Show as many different ways as you can with your manipulative.

 5. 16
 6. 14 2





For more practice making equal groups, go to the Extension Activities.

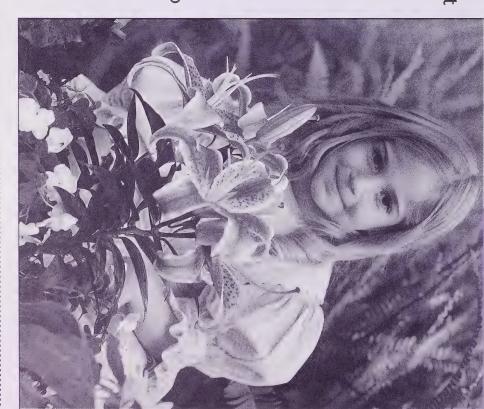


Day 12: Sharing Equal Groups

When you share things with your friends it is important to share them equally. Everyone wants the same amount. Elena and Jasper want to share things equally too.

Making two equal parts can be easy, but sometimes you have to make four or five equal groups. How do you do that?

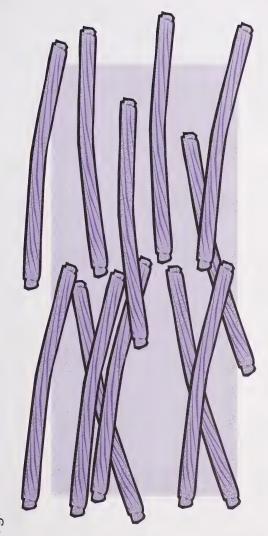
Today you will be sharing items, such as licorice, pancakes, apples, and flowers, to make many different equal groups.





Lesson 1

bag of licorice. She wanted to share the licorice equally among the three of them. She counted twelve sticks Elena and Jasper went to a movie with their friend lan. When they got to the movie theatre, Elena bought a of licorice in the bag.





Select a manipulative from your Math Box.



the boxes below. Then draw the pieces of licorice in each box. markers evenly among Elena, Jasper, and lan by placing them on markers are the licorice Elena is sharing with her friends. Divide the Count out twelve markers from your manipulatives. Pretend the

 Policopositive
1.7
0
Elena
9
0
37.7
<u>a</u>

Guide the student to realize that each child got four pieces of licorice.

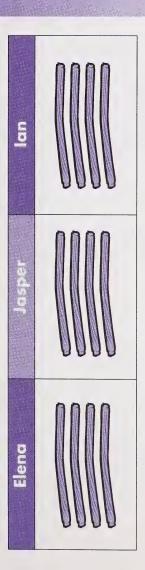
home instructor. How do you know that you divided the licorice evenly? Tell your

If you said each child got the same number of licorice sticks, you are

Yes, each child got four pieces of licorice.

right. How many pieces of licorice did each child get?

pieces



When you share twelve items equally between three people, you know that each person will get four items. Elena divided her bag of twelve pieces of licorice into three groups. Each group had four pieces of licorice.

Elena said no, they would share the licorice equally between the two When Elena gave Ian his four pieces of licorice, he said, "No thanks, I don't like licorice." Jasper said he would eat Ian's licorice for him.

Elena now had to divide the licorice into two equal parts—one part for her and one part for Jasper.

Find out how Elena can share the licorice equally with Jasper. Use your manipulatives to show what she can do.

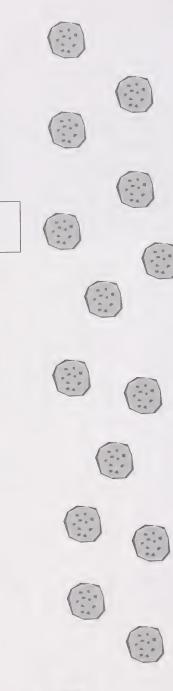
The student should arrange the manipulatives into two groups of six.



Draw a picture to show how you arranged the markers.

Lesson 2

Count the cookies.



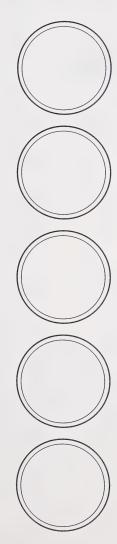
How many cookies are there?



Day 1

Sharing Equal Groups

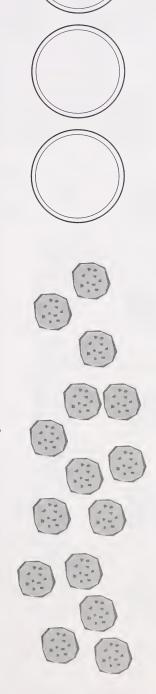
cookie on a plate, cross it out on the page. That will help you keep track of the cookies that already have Now you will share all fifteen cookies. Draw an equal amount of cookies on each plate. As you draw a been drawn.



There should be three cookies on each plate.

How many cookies did you draw on each plate?

Here are the fifteen cookies again. This time, you have to share them on three plates. Draw the cookies on each plate, crossing them out as you draw them.



There should be five cookies on each plate. How many cookies did you draw on each plate?



Have 10 cups ready. Give 20 items of a manipulative and 5 cups to the student. Follow the instructions with the student.

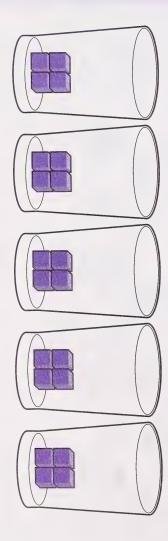
Now you know two ways in which 15 items can be equally shared.

answer the following questions. the items equally among the five cups. After you have done that, Your home instructor just gave you 20 items and some cups. Share

How many groups or cups are there?

How many items are in each cup?

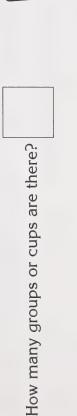
right. If you said there are five groups with four items in each cup, you are

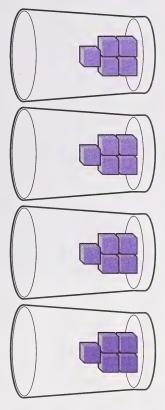


Day 1

Sharing Equal Groups

Empty the cups. Your home instructor will take one of the cups away. Share the same 20 items equally among the four cups. Then, answer the following questions.



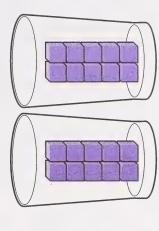


If you said there are four groups with five items in each cup, you are right.

How many items are in each cup?

Empty the cups again, and have your home instructor take two more cups away. You should now have two cups. Share the same 20 items equally among the two cups. Then answer the following questions.

How many groups or cups are there?



How many items are in each cup?

If you said there are two groups with ten items in each cup, you are right.



Sharing Equal Groups

Give the student 8 more cups for a total of 10.

questions items equally among the ten cups. Then answer the following more cups. You should now have ten cups. Share the same twenty Empty the cups again. Ask your home instructor to give you eight

How many groups or cups are there?

How many items are in each cup?

you are right. If you said there are ten groups with two items in each cup,



How many different ways did you share those 20 items?

Yes, you shared the 20 items 4 different ways.



Day 12

Sharing Equal Groups

Share 16 items equally among 2 cups. Then draw the 2 cups with the right number of items in each.

How many items are in each cup?

Share 16 items equally among 4 cups. Then draw the 4 cups with the right number of items in each.

If you answered there are two groups with eight

items in each, you are right.

How many groups or cups are there?	

How many items are in each cup?

If you answered there are four groups with four items in each, you are right.



Share 16 items equally among 8 cups. Then draw the 8 cups with the right number of items in each.

How many groups or cups are there? How many items are in each cup?

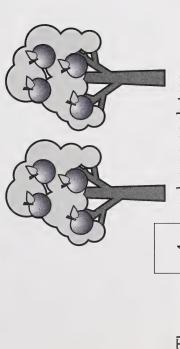
If you said there are eight groups with two items in each, you are right.



Draw pictures for each of these, then fill in the blank. The first one is done for you.

1. Share 8 apples on 2 trees.

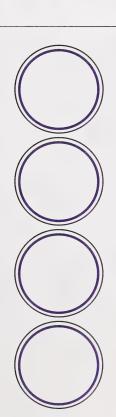
3. Share 9 candles on 3 cakes.



apples on each tree. 4 There are



2. Share 12 pancakes on 4 plates.



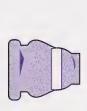
pancakes on each plate.

There are



candles on each cake. There are







flowers in each vase. There are

Day 13: Share Some More

You can solve many problems when you know how to share things equally. Making groups equal is the secret. You can use many different ways to make groups that have equal items.

Can you imagine how an egg carton might be helpful for making equal groups? Just go on to share some more.



Lesson 1

Elena's friend Sumi planted tomatoes in the garden last summer. She how many tomato plants she grew last summer. Sumi told Elena that she had 30 tomato plants in all. She planted them in 6 rows. Elena made tomato sauce out of the extra tomatoes. Elena asked Sumi

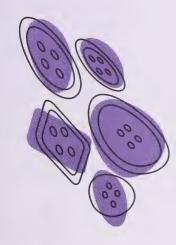
wondered how many tomato plants were in each row. Do you know?



Select a manipulative from your Math Box.

Count out 30 of your manipulative. What should you do now? Tell your home instructor. Right. Make six rows with your markers. Begin by putting one marker in each row. Keep adding markers one by one to each row until you use all 30. When you finish, draw a picture of the rows. It has been started for you.

Guide the student to make 6 rows. He or she can begin by putting a marker in each row, one at a time, until all 30 counters are used.



Share Some More











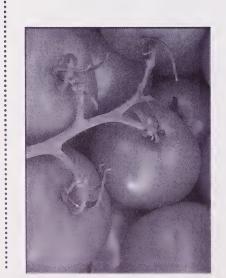


How many rows are there?

How many are in each row?

If you said six rows with five in each, you are right.

plants in each row. Sumi planted 30 tomato plants. There were six rows, with five tomato



Day 1

If Sumi had planted the 30 tomato plants in five rows, how many

tomato plants would be in each row?

With your markers, show how many tomato plants there would be in five rows. Then draw the rows in the box.

How many are in each row? How many rows are there?

If you said five rows with six in each, you are right.

Share Some More

Have the student make 6 rows with the counters, then have them add the counters, one by one, to each row until all 30 counters are used up.

The student should draw six rows of five tomatoes each.

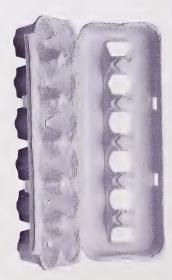


Lesson 2



Take out the egg carton from your Math Box.

beans, coins, cubes, or pasta. Count out 18 of the manipulative you were just using. They can be



Make equal groups of two and put them into the egg carton compartments.

How many compartments did you fill?

If you said yes, you are right







Now make equal groups of three and put them into the compartments of the egg carton.

How many compartments did you fill? Did you say six? Circle







Make equal groups of six and put them into the compartments of the egg carton.

If you said yes, you are right



or

How many compartments did you fill?









Count out 24 beans, coins, cubes, or pasta.

If you said yes, you are right.

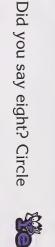
Make equal groups of two and put them into the compartments of the egg carton.



Now make equal groups of three and put them into the compartments of the egg carton.

If you said yes, you are right.

How many compartments did you fill?







If you said yes, you are right

Make equal groups of four and put them into the compartments of the egg carton.

How many compartments did you fill? Did you say six? Circle





Make equal groups of six and put them into the the compartments of the egg carton.

If you said yes, you are right.

How many compartments did you fill? Did you say four? Circle







If you said yes, you are right.

Make equal groups of eight and put them into the compartments of the egg carton.

How many compartments did you fill? Did you say three? Circle







If you said yes, you are right.

Make equal groups of twelve and put them into the compartments of the egg carton.

Did you say two? Circle How many compartments did you fill?



oľ

If you said yes, you are right.

Lesson 3

You can solve problems when you know how to share equally. Try to solve these. Use counters to help you, and draw a picture for each one.

1. Jasper has 15 marbles. He wants to give them away to his friends. How can he share them equally among his three friends?

Jasper gave marbles to each of his three friends.

2. Sol shared 16 cookies with four friends. How many cookies did each friend get?

Each friend got cookies.

3. Jamie planted 21 seeds in three pots. How many seeds were planted in each pot?

Jamie planted

seeds in each pot.

4. Elena bought 10 flowers for her mother. Her mother put the flowers into two vases. How many flowers	
were in each vase?	

There were

flowers in each vase.



For more practice sharing equal groups, go to the Extension Activities.



Go to Assignment Booklet 7B.

Day 14: What Do You Remember?

It's been a long while since you did Module 1. Module 1 was about numbers and looking at numbers in new ways. For example, you learned to sort numbers from largest to smallest.

You even learned how to write numbers using words. Do you remember what even and odd numbers are?

This is your chance to see what you remember.





What Do You Remember?

This is a review of what you learned in Module 1. See how much you remember.

1. Write in the missing numbers.







91





b. 33, 84, 19, 75



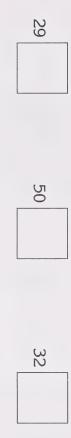
3. a. Write the number that comes before.



b. Write the number that comes between.



c. Write the number that comes after.



4. Circle the number that is greater in each block.



Day 14

What Do You Remember?

5. Circle the number on each block that is fewer.

29 30
 75 74
 d. Circle the number that is one less than 62.

o.

6. a. Circle the greatest number.

e. Circle the numbers that are less than 45.

63

59

19

9

b. Circle the number that is one more than 78.

f. Circle the numbers that are greater than 91.

c. Circle the least number.

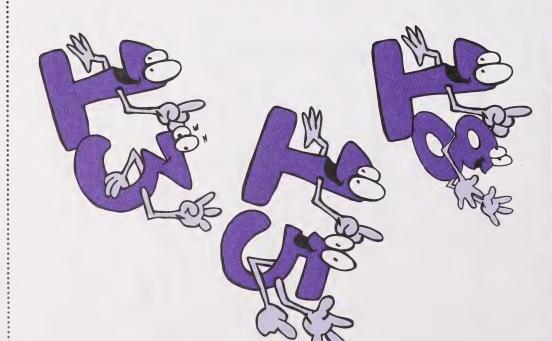
39 16 21

5

7. Match the numbers with the number words.

· =	. .		3 3	4

twenty	sevenicen	fourteen	sin ean	fifteen	Muricen	eighteen	nine/sen	eleven	twelve





000000000000000000000000000000

8. Look at the circles above. You'll be counting and colouring them in different ways.

- a. Colour the fourth and twentieth circles red.
- b. Put an X on the sixteenth and ninth circles.
- c. Colour the second circle and the thirty-first circle green.
- d. Colour the nineteenth and twenty-fifth circles blue.
- e. Put a triangle around the twelfth and third circles.
- f. Put a box around the tenth circle.
- g. Colour the first and twenty-eighth circles orange.



9. Enter the following numbers on your calculator. Then print the numbers under the number word.

a. nine

b. eleven

c. five

d. thirteen

- e. thirty

- . twenty

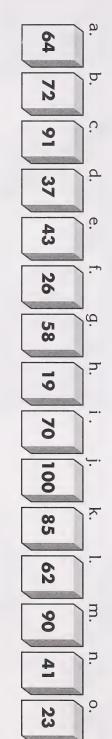
g. thirty-one

h. twenty-four

i. seventeen

twenty-three

10. Colour the even numbers yellow, and the odd numbers purple.



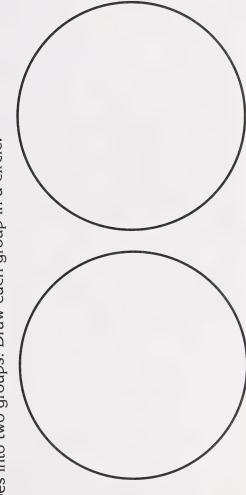
11. a. How do you know the yellow numbers are even?



b. How do you know the purple numbers are odd?

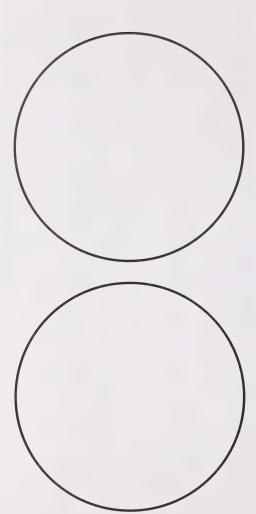
12.

- a. Colour three squares red.
 - b. Colour one square blue.
- c. Colour four triangles red.
- d. Colour two triangles blue.
- e. Sort the shapes into two groups. Draw each group in a circle.



f. What is your sorting rule?

g. Now find a different way to share the shapes between the two circles.



h. What is your new sorting rule?

Day 15: What Do You Remember?

It is always very useful to review the skills you have learned. In Module 2 you learned different ways to manage bigger numbers.

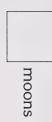
For example, do you remember how to make estimates when there are large numbers of items? Sometimes when you are working with large numbers, rounding is also useful. Can you remember how to round numbers?

These are some of the skills you will review today.

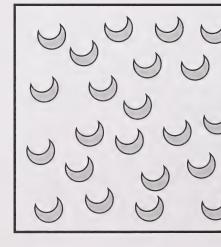


This is a review of what you learned in Module 2. See how much you remember.

1. a. Estimate the number of moons in the box.



b. Circle the tens. How many tens and ones are there?



- c. The actual number is moons.
- d. Is this greater or fewer than your estimate?

2. a. Estimate the number of stars in the box.

stars

b. Circle the tens. How many tens and ones are there?

tens

c. The actual number is

d. Is this greater or fewer than your estimate?

3. Draw rods and cubes in the box to show 53.

4. Count and print the numbers for each.

ġ b. What is the number? tens ones 0000000000 (0000000000) 0000000000 0000000000 0000000000 0000000000 00000 d. What is the number? tens

ones

Day 1

What Do You Remember?

5. Print the number shown. You'll draw the same number using fewer rods and more blocks. Then you'll draw it again using fewer blocks and more rods.

mber wit I More Ra	ones
The Same Number with Fewer Blocks and More Rods	tens
The Fewer	- ö
ber with ire Blocks	ones
Some Num ods and Me	tens
The Fewer R	·
·	ones
number is	tens
a. The number	o

he Same Number with r Blocks and More Rods		g. g. h. hens ones
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inber with More Blocks		ones
The Same Nu er Kods and		tens
ll)		တ်
	00000	
ne number is		f. tens one
e. The n		4-



6. Round the numbers to the nearest ten.

b.	a a	
42	16	Number Round

0 87

ġ.

÷

- **P** <u>d</u>. 91 ဒ္ဓ
- k. What is the rule for rounding?

<u>.</u>.

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Number 56 64 25 8 9 701112 70

ħ.

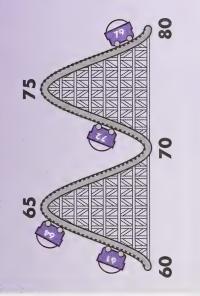
l. What is the rounding rule for a number that has a 5 in the ones place?

7. a. Circle in red the numbers that can be rounded to 60.

52	53	55	70
65	89	99	64
59	29	69	57
62	61	58	54
51	50	56	63

b. Circle in green the numbers that can be rounded to 90.

66	86	8	100	
84	63	87	83	
91	80	82	86	
26	85	88	95	
68	96	94	92	





- 8. Show the number below using tens and ones. Use manipulatives to help you. Then draw the set in the box.
- a. 74

b. Show the number on the place-value chart. Then fill in the blanks.

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1	16360
	125 C. S. S.
	1 50° 50°
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	\$ 55 Sec 1 45
	1222-36
	1992 S
	13/ 53
	\$309 Tak
	\$037.2. 550
	100 miles
	1007 000
	\$100 pc. 20
	\$6.50 a = 38.00
	1003.
	\$3550 miles
	DANGEROL STRAIN
	AG68 5355
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	10000 - 100
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c. tens ones

number?
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e. What does the 7 stand for?

f. What does the 4 stand for?

9. Show the number below using tens and ones. Use manipulatives to help you. Then draw the set in the box.

a. 32

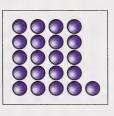
b. Show the number on the place-value chart. Then fill in the blanks.

	10-20-20-20-20-20-20-20-20-20-20-20-20-20
	13-43 N WE
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Reid (All)	6
8461	6
44.5V	6
	6
	6
	6
	6
	5

- c. tens ones
- d. What is the number?
- e. What does the 3 stand for?
- f. What does the 2 stand for?

10. a. Print the number of each card in the box below it. Then order the numbers from least to greatest in the circles.

ten fewer than 16



ten more than 70

thirty-

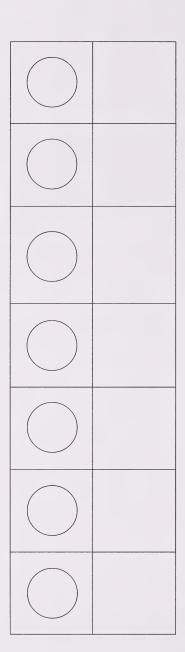
seven

81

one

b. Print the number of each card in the box below it. Then order the numbers from greatest to least in the circles.

thirteen	
0000	
63	
nineteen	
fewer than 42	ten
59	
more than 90	ten



Day 16: What Do You Remember?

Adding and subtracting are used to solve many problems each day. In Module 3 you practised different ways to do addition and subtraction. You have been getting better and faster at figuring out all sorts of problems.

It's interesting to try different methods to solve addition and subtraction problems. That way you can choose what works best for you.

Turn the page to see what you remember about these different methods.



1. Solve these addition problems.

| '3

2. Fill in the missing numbers.

3. Figure out the rule and print it. Fill in the missing numbers. The first one is started for you.

ö.



2 ن

	Output	6		
	Input	9	7	9
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4. Solve these equations.

- 4

5. Fill in the missing numbers.

$$-1 = 7$$

d.

What Do You Remember?

6. Figure out the rule. Then print it and fill in the missing numbers. The first one is started for you.

a.

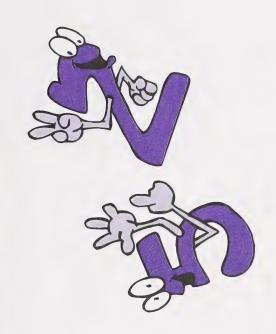
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- 7. Write the number sentence and answer for each problem.
- a. Joseph is baking some cupcakes. The cupcakes take twelve minutes to bake. They have been in the oven for eight minutes. How much longer do they have to be in the oven?



The cupcakes have to be in the oven minutes longer.



b. Elena's mother swims four kilometres every day. Today she swam six kilometres. How many more kilometres did she swim today?



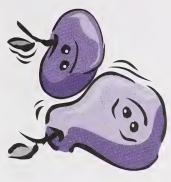
Elena's mother swam more kilometres today.



What Do You Remember?

c. Lorna's brother gave her nine pears. He also gave her three apples. How many pears and apples does Lorna have in all?

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Lorna has

pears and apples in all.

d. Jasper has eight hockey cards. He gave his best friend five of them. How many hockey cards does Jasper have left?

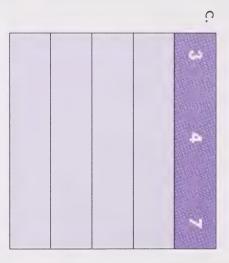


hockey cards left. Jasper has

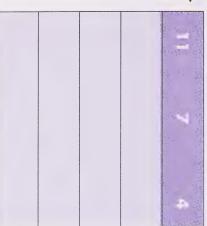


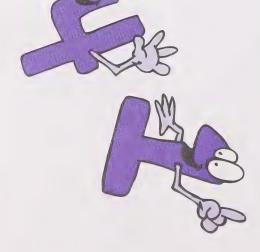
8. Make four number sentences (two addition ones and two subtraction ones) for each group of numbers.

a.





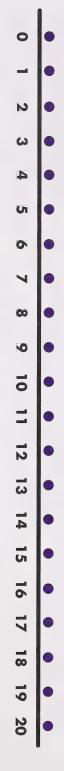




9. Show how you add and subtract these numbers using doubles. The first one is done for you.

$$6+6+1=13$$

10. Use the number line to add and subtract.



11. Subtract by counting on.

c. 13-11=

12. Subtract by counting back.

13. Add these numbers.

+ 26

6+

+2

b. 77

85

q.

14. Subtract these numbers.

a. 83

- 0
- lω

<u>.</u> - 70 93

b. 93

2

36

- 15

- 58 68

15. Solve the problems.

a. Mandy has 32 pictures in her album. Her brother has 57 pictures in his album. How many pictures do they have in all? Write the number sentence.



Mandy and her brother have pictures in all.

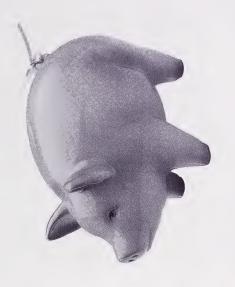
Day 16

What Do You Remember?

b. Elena has 68 cents in her piggy bank. That is 53 cents more than Jasper has in his piggy bank. How much money does Jasper have in his piggy bank? Write the number sentence.



Jasper has cents in his piggy bank.



16. Look at the numbers that Geri has to add.

$$35 + 19$$

Geri does her arithmetic by imagining that she should add 10, then another 10, and then take one away. This is what the numbers would look like.

$$35 + 10 + 10 - 1$$

a. Explain what Geri means.

b. What is the sum of 35+19?

Use Geri's method to solve these problems. Show your work.

17. Estimate to get approximate answers. Show your work.

Guide the student to round 91 to 90 and 47 to 50.

If necessary, guide the student to round 62 to 60 and 23 to 20.

Day 16

What Do You Remember?

18. Carmen's father gave her 98¢ to buy some milk. The milk costs 72¢. About how much money would Carmen have left after she bought the milk?

=about	
lown the number sentence.	
a. Write down the	

b. Explain how you estimated your answer.



Day 17: What Do You Remember?

This is the day you will recall all sorts of shapes. You know many words to describe 2-D shapes and 3-D solids.

By the way, do you remember what the difference is between 2-D and 3-D? what faces, edges, and vertices are?

Skeletal models can be a challenge, even tasty ones made of marshmallows. Do you remember how you did that?

It's time to see how much you remember about geometric shapes and solids.





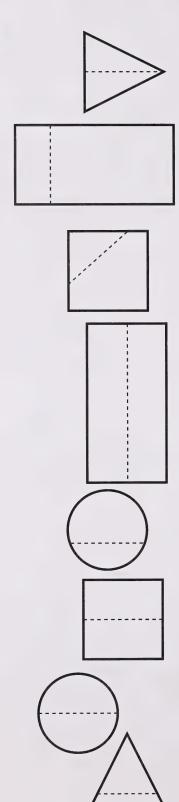


Take out the 2-D geometry shapes from your Math Box

1. Use your 2-D geometry shapes to help you complete this chart. Put your answers on the lines.

How many corners does it have?	corners	corners	corners	corners
How many sides How many corne does it have? does it have?	sides	sides	sides	sides
What is the name of this shape?				
Shape	a.	b.	j	d.

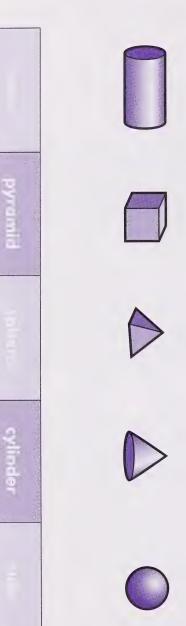
2. Put an X on the pictures that are folded into two congruent shapes.





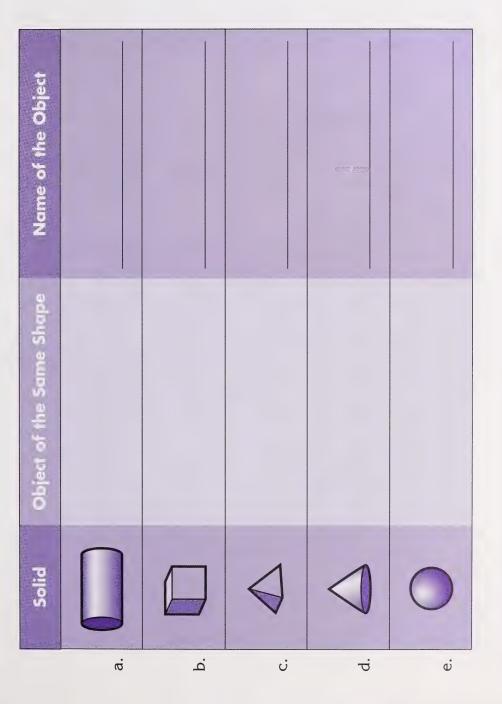
Take out the 3-D solids from your Math Box.

3. Draw a line to match each solid to its name.



What Do You Remember?

4. Draw a picture of something that is the same shape. Then write what it is on the line.





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,	Write the names of the 3-D solids to answer the question.

a. This solid has all square faces.

b. This solid has no faces.

c. This solid is shaped like a pop can.

e. This solid has one square face. d. This solid has only one face.

Dav 1

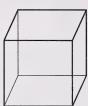
What Do You Remember?

6. First, name the solid. Then print the number of faces, edges, and vertices each has.

Number of Vertices				
Number of Edges				
Number of Faces				
Name				
Solid				
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- 7. How many sticks and marshmallows would you need to make these skeletal models? Print your answer in the box.
- a.



sticks



marshmallows

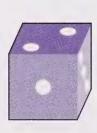


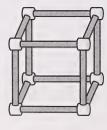


sticks



8. How are the solid object and the skeletal model the same?





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What Do You Remember?

9. How are the solid object and the skeletal model different?

10. Why can't you use sticks and marshmallows to make a sphere?

6

Day 18: What Do I Know Now?

You have now completed a review of the first four modules of Mathematics Two. It's time to ask, "What do I know about the work in this module?"

In this module you practised using numbers to 1000. Do you remember how to count by 2s, 5s, 10s, and 25s? Which way is the quickest way to count to 100? This is also a way to use groups to help solve problems.

What can you remember about sharing equal groups? If you had eight toys to share with two of your friends, how many toys would you each get? How could you solve this problem?

It's time to find out what you know now.

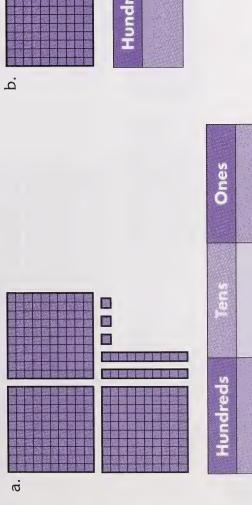


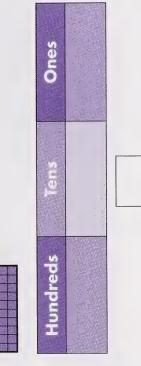


What Do I Know Now?

This is a review of what you learned in this module. See how much you remember!

1. Look at these numbers. Fill in the place-value charts. Then write the number in the box.



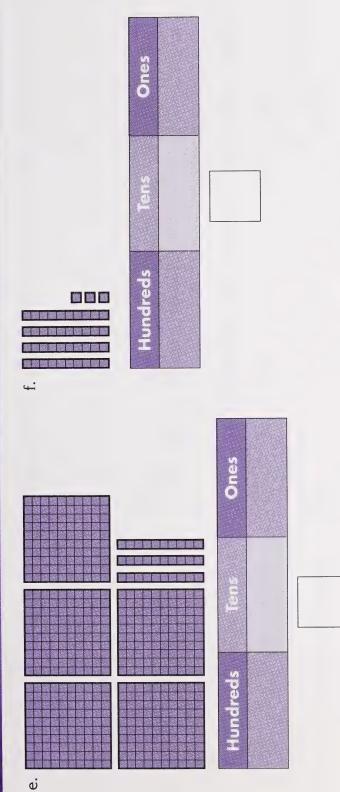




<u>.</u> Hundreds Ones <u>d</u> Hundreds

Ones







2. Count by ones. Print the numbers that follow in the boxes.

- 135,
- c. 940,
- ,
- d.

b. 268,

- 77, ,
- 73

3. Count by twos. Print the numbers that follow in the boxes.

a. 622,

- c. 360,
- ,
- 3

1. 444,

- 4. Count by fives. Print the numbers that follow in the boxes.
- a. 775,
- c. 800, d. 185,
- 5. Count by tens. Print the numbers that follow in the boxes.

b. 230,

- a. 410,
- c. 790,
- - b. 230,
- d. 950,

- 6. Count by 25s. Fill in the missing numbers.
- a 75,

c. 25,

- b. 50,

<u>d</u>.

100

7. Count the quarters and print the value of each.



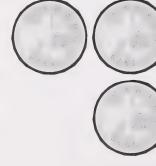
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c.



4

d.



Day 18

What Do I Know Now?

8. Draw any objects you want to show the following groups, and fill in the boxes.

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	groups of 2	
	6 grou	

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- 9. Draw the picture for each box and solve the problem.
- There are four whitefish in the bucket. c. Cara has three cats.

- How many eyes are there in all?
- How many legs are there in all?

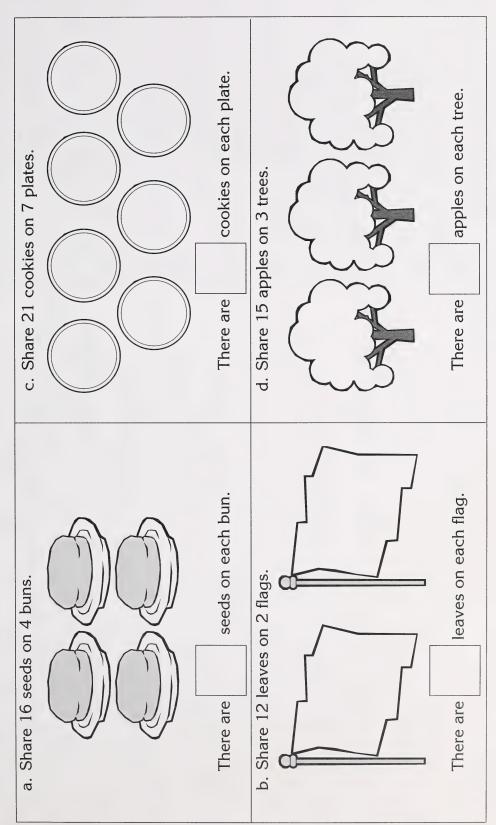
 There

 d. Nancy has six nickels.
- b. There are five muffins in each package. There are three packages.

 How many muffins are there in all?
- How many cents does she have in all?

What Do I Know Now?

10. Finish the picture for each one and print the answer in the box.





- 11. Draw a picture for each problem. Write the answer in the box.
- a. Gabbie brought 24 candies to share between six people. She put the candies on plates.
 How many candies did each person get?
- b. There are 9 wheels in total on the tricycles in Sam's backyard. Each tricycle has three wheels. How many tricycles are there?

Each person got candies.

There are tricycles.



You have now completed Module 7. These are the things you learned:

- how to count by ones to 1000
- how to count by twos to 1000
- how to count by fives to 1000
 - how to count by tens to 1000 how to count by 25s to 100
- how to make equal groups of objects

how to share a number of objects equally

You will now be able to work with big numbers more easily.





Extension Activities

Days 4 to 8

Activity 1

You will need base ten blocks for this activity.

a book, this is what you would print in the chart. print the number in the place-value chart. For example, if it takes two hundreds flats and four rods to cover anything else that you would like to measure. Count the number of blocks you need to cover the area, and takes to cover the areas. Place the base ten blocks on your desk, books, the top of your TV set, and Use the hundreds flats, rods, and cubes to measure small areas. Find out how many base ten blocks it

	book	Area covered
	2	Hundreds
	4	Tens
	0	Опез



Extension Activities



Use the cards numbered 0 to 9 from your Student Folder.



Take your base ten blocks out of your Math Box.

Put the number cards in a pile, and select three cards without looking at them. Make a three-digit number with the cards, and make the same number with the base ten blocks. Then print the number in the box. Rearrange the same three cards into a new number. Again, make the number with the base ten blocks. Print the number in the chart with the first number.

Rearrange the same cards again and make the number with the base ten blocks. Print the new number in the chart with the other two. You can make three or more different numbers using the same three cards!

three new numbers with the new cards, and print the numbers in the box. Keep doing this with more cards. Put the number cards back into the pile, and pick three other cards from the pile without looking. Make



Extension Activities

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		3 Digit Number
	1000	
		3-Digit Number

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			3-Digit Number	

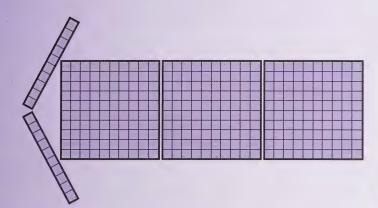


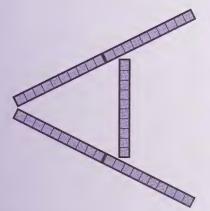


Activity 3

used in the place-value chart. See how many different shapes you can make. Use your base ten blocks to build a shape. Then print how many blocks were Here is an example of one shape—it's a house.

You can also make funny shapes, or you can make your initial, like this.





Ones	0	0
	2	5
Hundreds	3	0
्रम् (का <u>।</u>		1011111



	43.	18 30	La Salaker	State Banker	
					Shape
					7 2 3 4 7 6
					Tens
					Ones

Activity 4



Take your base ten blocks out of your Math Box again.



Take the number spinner that goes from 0 to 9, and two place-value charts for 3-digit numbers.

3-digit numbers. Do this activity with your home instructor. You will take turns spinning numbers on the spinner and creating



Spin a number on the spinner. Show that number with your base ten blocks in any column of your place-value chart.

Spin another number and show it on one of the two remaining columns.

Spin a third time and show the number on the last column. You've just created a 3-digit number. Now have Now you can compare your numbers. Whose number is greater, yours or your home instructor's? Are they your home instructor spin three numbers and place them in each of the columns of a place-value chart. both odd or even? Keep playing this game until you make at least ten different 3-digit numbers.

Activity 5

You will need a large sheet of paper for this activity. Think of any number between 100 and 1000. On your paper, show that number in as many ways as possible. You can

- print the number
- write out the number words
- use pictures
- draw base ten blocks
- draw a calculator screen that shows the number



Activity 6

Trading Game



Take your paper play money and two place-value charts out of your Student Folder.



Take a die out of your Math Box.

Play this game with your home instructor.

Once you have ten ones, trade them for a ten-dollar bill and place it in the tens column. When you have ten dollars or nine hundred and fifty dollars winner. Or you can set your own limit. For example, you can play until one player reaches four hundred ten-dollar bills, trade them for a hundred-dollar bill. The player to reach five hundred dollars first is the coins in the ones column of your place-value chart. Then it is your home instructor's turn to roll the die. Each of you will need a place-value chart. Begin by rolling the die and placing that number of one-dollar

Days 10 and 11

Activity 1

Draw a monster in the box. How many heads will it have? How many tails? eyes? ears? noses? mouths? arms? legs? Once you've drawn your monster, answer the questions.



How many legs?	If you had four of yo	How many arms?	If you had three of y	How many tails?	If you had two mons
How many heads?	If you had four of your monsters, how many noses would there be?	How many mouths?	If you had three of your monsters, how many eyes would there be?	How many ears?	If you had two monsters like the one you just drew, how many heads would ther
	ld there be?		ld there be?		many heads would there be?

How many eyes?	How many ears?	How many arms?	How many mouths?	How many eyes?	How many ears?
f you had five of your monsters, how many tails would there be?	f you had six of your monsters, how many legs would there be?	f you had seven of your monsters, how many tails would there be?	f you had eight of your monsters, how many heads would there be?	f you had nine of your monsters, how many noses would there be?	f you had ten of your monsters, how many legs would there be?



Activity 2

Use manipulatives to help you.

1. You're having a party. It is up to you to make the arrangements. There will be six people at the party. sticks, and two drinks. How much of each will you need to prepare? Draw pictures to help you. Each person will have one piece of cake, three sandwiches, five carrot sticks, six balloons, four celery

pieces of cake in all.	a. I will need to cut
in all.	ıt .
sandwiches in all.	b. I will need to make
carrot sticks in all.	c. I will need to chop

f. I will need to pour	drinks in all.	
e. I will need to chop	celery sticks in all.	
d. I will need to blow up	balloons.	



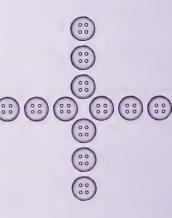
Activity 3



Take a variety of manipulatives out of your Math Box.

Make designs with equal groups of manipulatives that go in different directions.

This design is made up of 4 groups of 3



Make your own designs with these groups:

- •5 groups of 2
- •6 groups of 4
- •3 groups of 5

with your disigns as you can. Make as many groups of other numbers as you like. Try to avoid ordinary groups and rows. Be as creative



Activity 4



Take some drawing paper out of your Student Folder.

- 1. Farmer Len has four pigs, three chickens, and five cows. Draw his animals. How many legs are there in
- 2. Draw three cars and five bicycles in a parking lot. How many wheels are there in all?
- 3. Draw five children at a party. How many fingers are there in all?

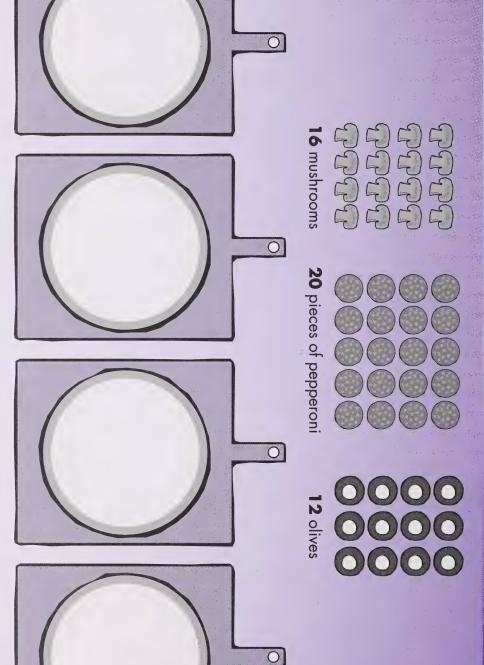
Days 12 and 13

Making a Pizza

Activity 1

You have to make four pizzas using all of the ingredients shown. Draw the pizzas so that each pizza shares an equal number of each ingredient.





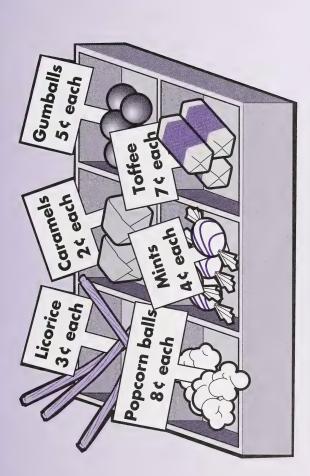


Activity 2



Take 30 pennies of play money out of your Student Folder.

You are going to buy candy with your 30¢. Find out how much of each candy you can buy.



in your own store! items and how much each one costs. Decide how much money you have to spend in all. Then go shopping Make your own store. You could sell candy, vegetables, or toys. On a separate piece of paper, draw the How many toffee pieces can you buy for 30¢? How many mints can you buy for 30¢? How many popcorn balls can you buy for 30¢? How many gumballs can you buy for 30¢? How many caramels can you buy for 30¢? How many licorice pieces can you buy for 30¢?





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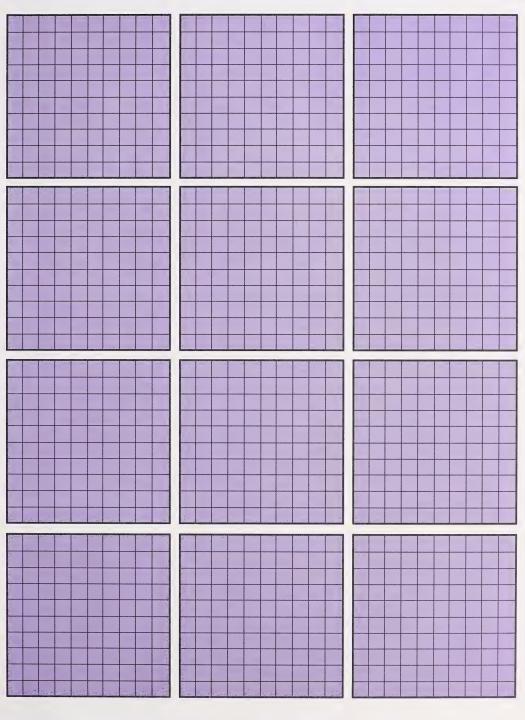
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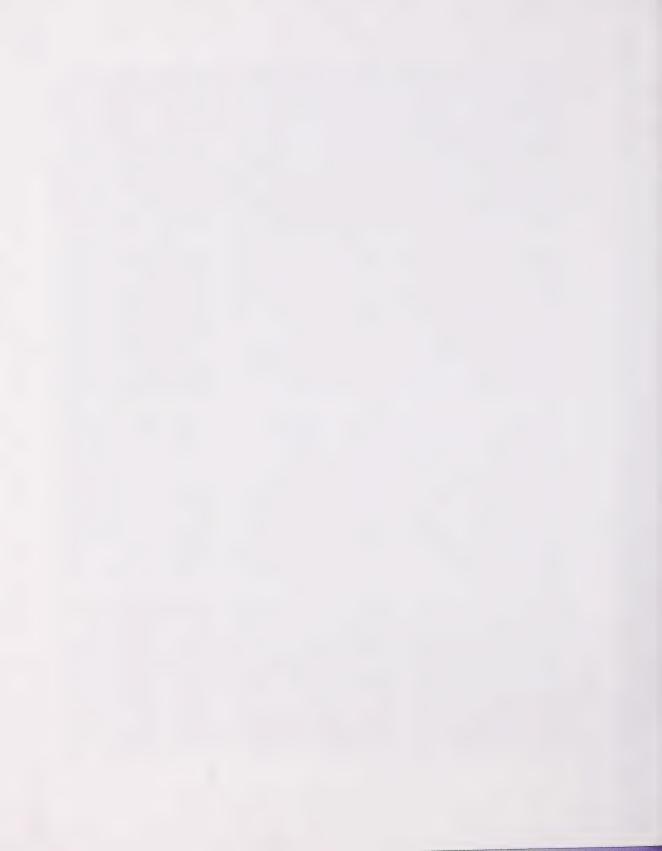
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Hundreds Flats

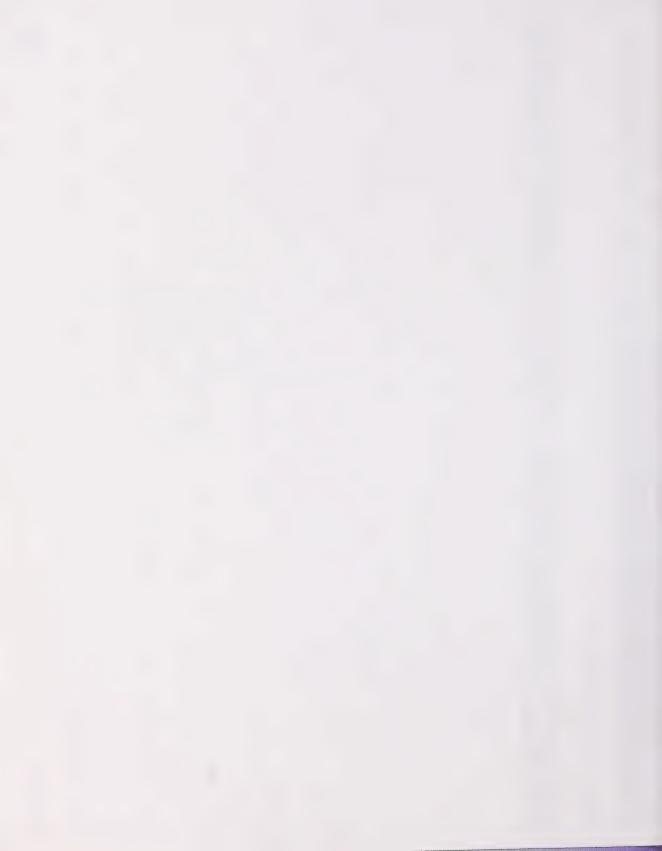




Place-Value Chart

Ones	
Tens	
<u>«</u>	
Hundreds	
Ē	





Place-Value Chart

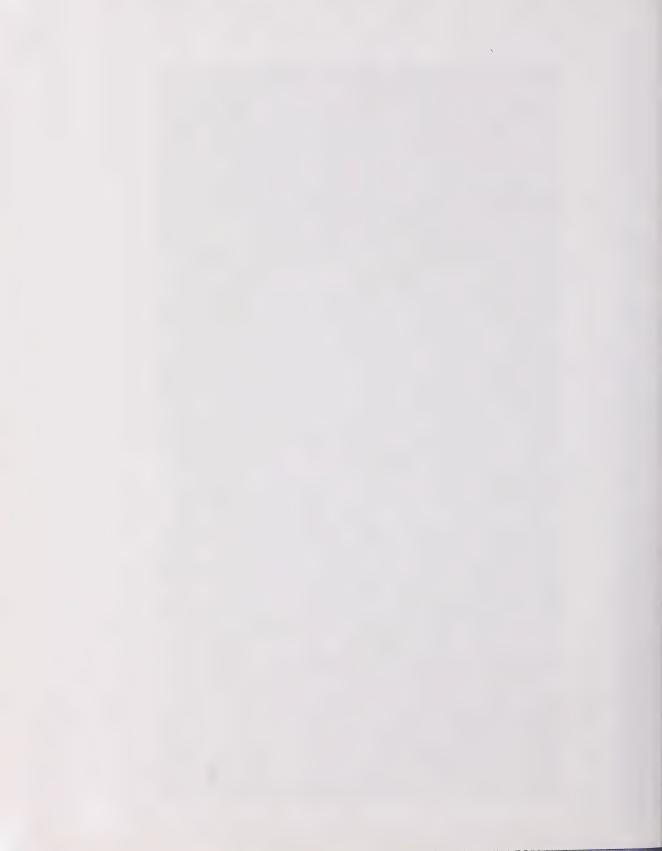
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Module 7

Paper Play Money

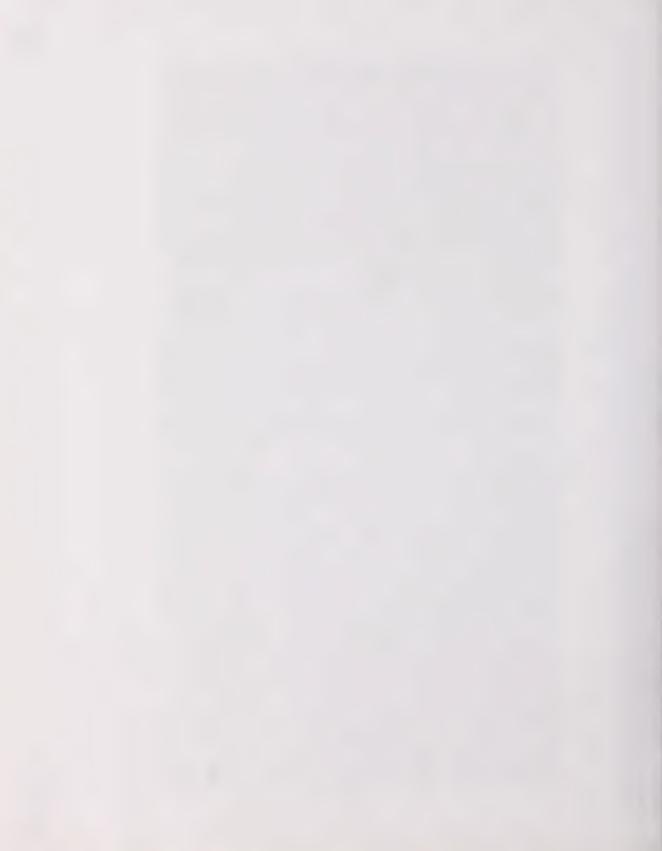




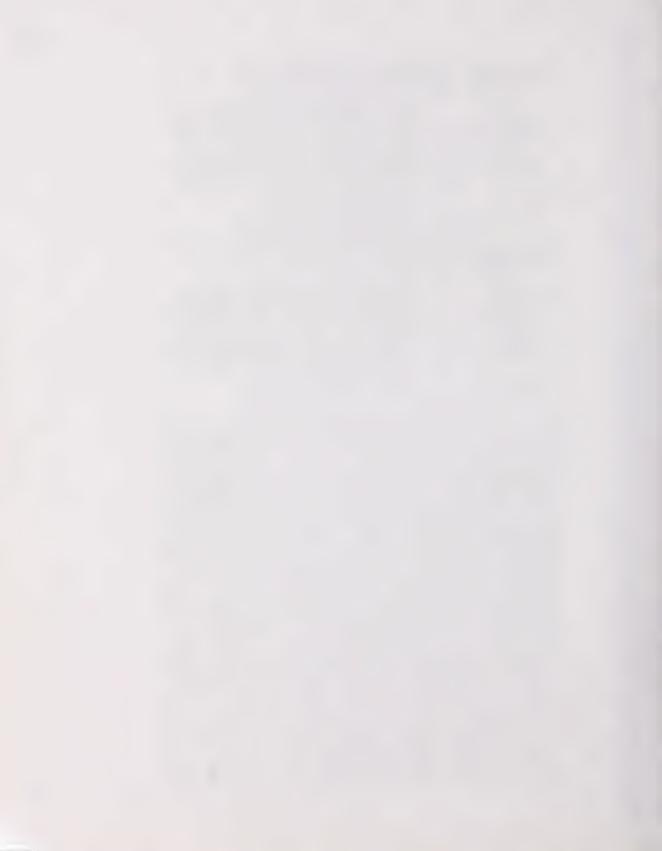
Module 7

Paper Play Money









Paper Play Money

CENT • DOLLARS • ONE HUNDRED
THIS NOTE IS NOT LEGAL TENDER

100

CENT • DOLLARS • ONE HUNDRED

THIS NOTE IS NOT LEGALTENDER

THOUGH IS NOT LEGALTENDER

CENT • DOLLARS • ONE HUNDRED

THIS NOTE IS NOT LEGAL TENDER

THIS NOTE IS NOT LEGAL TENDER

CENT • DOLLARS • ONE HUNDRED

THIS NOTE GALTENDER

